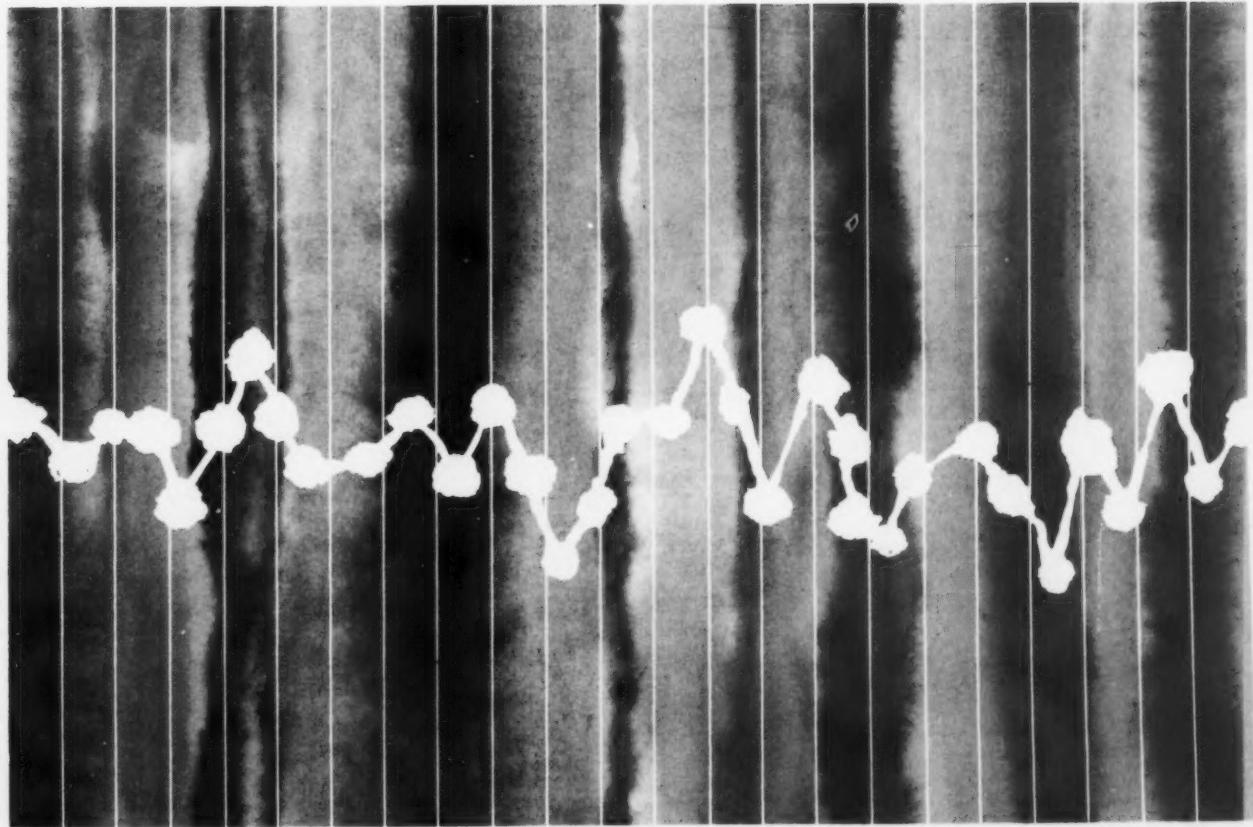


defense indicators

OCTOBER 1976



U.S. DEPARTMENT OF COMMERCE • BUREAU OF ECONOMIC ANALYSIS



This report was prepared in the Statistical Indicators Division, Bureau of Economic Analysis. Technical staff and their responsibilities for the publication are—

Barry A. Beckman—Technical supervision and review,

Morton Somer—Selection of seasonal adjustment methods,

Betty F. Tunstall—Collection and compilation of basic data.

The cooperation of various government agencies which provide data is gratefully acknowledged.

For sale by the Superintendent of Documents, U.S. Government Printing Office, Washington, D.C. 20402. Subscription price is \$17.90 per year (\$4.50 additional for foreign mailing). Single issues are \$1.50. Make checks payable to the Superintendent of Documents. Postage stamps not acceptable; currency submitted at sender's risk. Remittances from foreign countries must be by international money order or by draft on a U.S. bank. For information about foreign airmail delivery, write to the Superintendent of Documents (address above) enclosing a copy of your address label.

The Secretary of Commerce has determined that the publication of this periodical is necessary in the transaction of the public business required by law of this Department. Use of funds for printing this periodical has been approved by the Director of the Office of Management and Budget through September 1, 1977.

U. S. DEPARTMENT OF COMMERCE Elliot L. Richardson, Secretary

BUREAU OF ECONOMIC ANALYSIS

George Jaszi, Director

Morris R. Goldman, Deputy Director

Beatrice N. Vaccara, Associate Director for National Analysis and Projections

Feliks Tamm, Editor

This publication is prepared under the general guidance of an interagency committee established by the Office of Management and Budget. This committee consists of the following persons:

David T. Hulett, Chairman
Office of Management and Budget

James D. August, Board of Governors of the Federal Reserve System

Murray F. Foss, Council of Economic Advisers, Executive Office of the President

Rose Glubin, Office of Assistant Secretary of Defense (Comptroller), Department of Defense

Dale W. Gordon, Bureau of the Census, Department of Commerce

Ronald Kutscher, Bureau of Labor Statistics, Department of Labor

Charles Waite, Bureau of Economic Analysis, Department of Commerce



This report was prepared in the Statistical Indicators Division, Bureau of Economic Analysis. Technical staff and their responsibilities for the publication are—

Barry A. Beckman—Technical supervision and review,

Morton Somer—Selection of seasonal adjustment methods,

Betty F. Tunstall—Collection and compilation of basic data.

The cooperation of various government agencies which provide data is gratefully acknowledged.

For sale by the Superintendent of Documents, U.S. Government Printing Office, Washington, D.C. 20402. Subscription price is \$17.90 per year (\$4.50 additional for foreign mailing). Single issues are \$1.50. Make checks payable to the Superintendent of Documents. Postage stamps not acceptable; currency submitted at sender's risk. Remittances from foreign countries must be by international money order or by draft on a U.S. bank. For information about foreign airmail delivery, write to the Superintendent of Documents (address above) enclosing a copy of your address label.

The Secretary of Commerce has determined that the publication of this periodical is necessary in the transaction of the public business required by law of this Department. Use of funds for printing this periodical has been approved by the Director of the Office of Management and Budget through September 1, 1977.

U. S. DEPARTMENT OF COMMERCE

Elliot L. Richardson, Secretary

BUREAU OF ECONOMIC ANALYSIS

George Jaszi, Director

Morris R. Goldman, Deputy Director

Beatrice N. Vaccara, Associate Director for National Analysis and Projections

Feliks Tamm, Editor

This publication is prepared under the general guidance of an interagency committee established by the Office of Management and Budget. This committee consists of the following persons:

David T. Hulett, Chairman
Office of Management and Budget

James D. August, Board of Governors of the Federal Reserve System

Murray F. Foss, Council of Economic Advisers, Executive Office of the President

Rose Glubin, Office of Assistant Secretary of Defense (Comptroller), Department of Defense

Dale W. Gordon, Bureau of the Census, Department of Commerce

Ronald Kutscher, Bureau of Labor Statistics, Department of Labor

Charles Waite, Bureau of Economic Analysis, Department of Commerce

defense indicators

October 1976
Series ES4 No. 76-10

	Page
Introduction	1
Table A. Summary of Recent Data and Current Percent Changes for Principal Defense Indicators	4
Chart 1. Gross National Product and National Defense Purchases	5
Chart 2. Advance Indicators of Defense Activity	6
Chart 3. Intermediate and Final Indicators of Defense Activity	9
Chart 4. Defense-Related Balance of Payments Components	13
Table 1. Gross National Product and National Defense Purchases	14
Table 2. Advance Indicators of Defense Activity	15
Table 3. Intermediate and Final Indicators of Defense Activity	22
Table 4. Defense-Related Balance of Payments Components	27
Appendix A: Seasonal Adjustment Factors	28
Appendix B: Average Changes and Related Measures of Variability ..	29
Appendix C: Historical Data	31
Appendix D: Data Sources and Series Descriptions <i>(See Alphabetical Index—Series Finding Guide)</i>	
Alphabetical Index—Series Finding Guide	Back Cover

6 BEA PROJECTS

for economic
analysis

BUSINESS CONDITIONS DIGEST A monthly report for analyzing economic fluctuations over a short span of years.

This report brings together approximately 600 economic time series in a form convenient for analysts whether their approach to the study of current business conditions and prospects is the national income model, the leading indicators, anticipations and intentions, or a combination of these. Other types of data such as foreign trade, Federal Government activities, and international series are included to facilitate a more complete analysis.

Data are presented in charts and tables. Appendixes provide historical data, series descriptions, seasonal adjustment factors, and measures of variability. A computer tape containing data for most of the series is available for purchase.

DEFENSE INDICATORS A monthly report for analyzing the current and prospective impact of defense activity on the national economy.

This report brings together the principal time series on defense activities which influence short-term changes in the national economy. These include series on obligations, contracts, orders, shipments, inventories, expenditures, employment, and earnings. The approximately 60 time series included are grouped in accordance with the time at which the activities they measure occur in the defense order-production-delivery process. Charts and analytical tables facilitate interpretation.

LONG TERM ECONOMIC GROWTH A report for the study of economic trends over a long span of years, 1860-1970.

This report has been developed from available statistics to provide a comprehensive, long-range view of the U.S. economy. It is a basic research document for economists, historians, investors, teachers, and students. It brings together under one cover, in meaningful and convenient form, the complete statistical basis for a study of long-term economic trends. A computer tape file of the time series included in the report is available for purchase.

COMPUTER PROGRAMS FOR TIME SERIES ANALYSIS The source statements for FORTRAN IV programs used by BEA in its analysis of time series are available on a single computer tape.

SEASONAL ADJUSTMENT PROGRAMS.—Two variants of the Census computer program for measuring and analyzing seasonal, trading-day, cyclical, and irregular fluctuations. They are particularly useful in analyzing economic fluctuations which take place within a year. The X-11 variant is used for adjusting monthly data and the X-11Q for quarterly data. These programs make additive as well as multiplicative adjustments and compute many summary and analytical measures.

DIFFUSION INDEX PROGRAM.—A computer program for computing diffusion indexes, cumulated diffusion indexes, and summary measures of the properties of each index.

SURVEY OF CURRENT BUSINESS A monthly report for analyzing current economic developments.

This report provides a useful combination of current data for more than 2,500 statistical series and significant articles analyzing economic developments. These data and analyses include such areas as the national income and product accounts, the balance of payments accounts, plant and equipment expenditures, regional personal income, and the input-output accounts.

BUSINESS STATISTICS A biennial reference volume containing statistical series reported currently in the *Survey of Current Business*.

This report provides historical data back to 1947 for nearly 2,500 time series. The series are accompanied by concise descriptions as to their composition, methods of compilation, comparability, revisions, and availability. Also listed are the names and addresses of organizations which provide the basic data for the series.

Introduction

The purpose of this monthly report is to bring together the principal time series on defense activity which influence short-term changes in the national economy. These include series on obligations, contracts, orders, shipments, inventories, expenditures, employment, and earnings. Most are monthly but a few quarterly series are included. The series numbers used are for identification purposes only and do not reflect relationships or order.

Classification of Series

Chart 1 compares Government purchases of goods and services for national defense with total gross national product. GNP is the market value of the final output of goods and services produced by the Nation's economy and represents a very broad measure of aggregate economic activity. In addition to national defense purchases, it includes Federal Government purchases of goods and services for nondefense purposes, State and local government purchases, personal consumption expenditures, gross private domestic investment, and net exports of goods and services. Chart 1 also presents national defense purchases as a percent of gross national product and, for both series, changes from the previous quarter.

A related group of series is shown in Chart 4, "Defense Related Balance of Payments Components." These series show the effects of defense-related economic activity on the balance of payments accounts.

The remaining series are grouped in accordance with the time at which the activities they measure occur within the defense order-production-delivery process. Those series measuring activities that usually precede production, such as new orders placed with defense products industries and contract awards, are presented in Chart 2, "Advance Indicators of Defense Activity." Chart 3, "Intermediate and Final Indicators of Defense Activity," presents series that measure activities which tend to move at the same time as production (such as employment) and activities which usually follow production (such as shipments).

Series Included

Following is a list of the series as they appear in charts 1, 2, 3, and 4 (the source agencies are abbreviated in parentheses; detailed lists of sources for charts 1, 2, and 3 appeared as appendixes to the August and October 1968 issues of this report).

Gross National Product and National Defense Purchases

Gross national product (BEA)
Federal Government purchases of goods and services, national defense (BEA)
National defense purchases as a percent of gross national product (BEA)
Gross national product, changes from previous quarter (BEA)
National defense purchases, changes from previous quarter (BEA)

Advance Indicators of Defense Activity

Defense Department gross obligations incurred, total (DOD)
Defense Department gross obligations incurred, procurement (DOD)
Gross obligations incurred outside the Government for national defense (Treasury)

Defense Department military prime contract awards for work performed in the United States (DOD)
Defense Department gross unpaid obligations outstanding (DOD)
Manufacturers' new orders (Census):
 Defense products industries
 Defense products
Manufacturers' new orders from the U.S. Government, aerospace industries (Census):
 Average weekly overtime hours, production workers, defense products industries (BLS)
Accession rate, defense products industries (BLS)
Layoff rate, defense products industries (BLS)

Intermediate and Final Indicators of Defense Activity

Output of defense and space equipment (FRB)
Manufacturers' inventories (Census):
 Defense products industries
 Defense products
Manufacturers' unfilled orders (Census):
 Defense products industries
 Defense products
Manufacturers' unfilled orders from the U.S. Government, aerospace industries (Census)
Defense Department progress payments outstanding (DOD)
Employment in defense products industries, total (BLS)
Employment in defense products industries, production workers (BLS)
Index of aggregate weekly hours, defense products industries (BLS)
Index of aggregate weekly payrolls, production workers, defense products industries (BLS)
Defense Department personnel, military, active duty (DOD)
Defense Department personnel, civilian, direct hire employment (DOD)
Defense Department net outlays, total, military functions and military assistance (DOD)
Defense Department net outlays, procurement (DOD)
Budget outlays for the national defense function (Treasury)
Defense Department personnel compensation (DOD)
Manufacturers' shipments (Census):
 Defense products industries
 Defense products
Manufacturers' shipments to the U.S. Government, aerospace industries (Census)
Ratio, manufacturers' unfilled orders to shipments (Census):
 Defense products industries
 Defense products
Ratio, manufacturers' inventories to shipments (Census):
 Defense products industries
 Defense products

Defense-Related Balance of Payments Components

Transfers under U.S. military agency sales contracts—exports (BEA)
Direct defense expenditures—imports (BEA)
U.S. Government cash receipts associated with military sales contracts (BEA)

Some additional data are included in the tables though not presented in the charts. These include Defense Department military prime contract awards by procurement category (e.g., for aircraft, missiles and space systems, ships, weapons, and ammunitions), the operations component of Defense Department

gross obligations incurred, gross unpaid obligations outstanding, and net outlays and the procurement component of gross unpaid obligations outstanding.

Description of Basic Data

The Department of Defense compiles statistics on obligations, contract awards, personnel compensation, and outlays. The DOD obligations and outlays data are based on the Defense Department's monthly *Status of Funds* report which is developed from accounting data and is designed to provide information on the total status of Defense Department financing. Accounts included in this report are aggregated by appropriation categories including personnel costs, operations and maintenance, procurement, research and development, and construction. The *Status of Funds* report duplicates some obligations. That is, obligations of one government unit to another unit are not netted out.

The Defense Department's *Contract Awards* report covers the awarding of procurement contracts. These include obligations for operating and maintenance supplies, equipment and services, research and development, and construction in addition to the obligations for items that constitute the fiscal "procurement" category. The statistics are aggregated by commodity categories including aircraft, missile and space systems, ships, weapons, ammunition, electronics and communication equipment, fuels, and textiles and clothing. The *Contract Awards* report includes procurement for NASA, other nondefense agencies, and the Foreign Military Sales Program which are not included in the *Status of Funds* report.

The Census quarterly new orders, unfilled orders and shipments series for "aerospace industries" are based on reports of companies classified into the following industry categories:

Industry	SIC Code
Aircraft and parts	372
Guided missiles and space vehicles, completely assembled ..	1925

The Census and BLS data for "defense products industries" presented in this report cover companies and establishments¹ classified into the following industry categories in accordance with the *Standard Industrial Classification Manual*, 1967 edition, Executive Office of the President, Bureau of the Budget:

Industry	SIC Code
Ordnance and accessories	19
Communication equipment	366
Aircraft and parts	372

Establishments reporting to the BLS are classified into industries on the basis of their principal product or activity as determined from information on annual sales volume, which is collected each year on a supplement to the monthly report. The entire employment of an establishment making more than one product or engaging in more than one activity is included under the industry accounting for the largest percentage of the annual sales of that establishment.

The Census Bureau's monthly survey is based primarily on reports at the company level and the monthly estimates are benchmarked to the establishment data from the *Annual Survey*.

¹An establishment is a single physical location where business is conducted (e.g., a plant). A company often includes more than one establishment.

of Manufactures. Also, many of the large diversified companies file separate divisional reports monthly. Although the reports in the survey are also classified according to their principal product or activity, this difference in the organizational level from which reports are received results in firms being classified into different industries in the BLS and Census surveys and, consequently, limits somewhat the comparability of the data collected by these agencies. However, as we know from past studies in this area, some differences in industrial classification between BLS and Census data would remain even if reports came from the same organizational levels.

Both the Census and the BLS data include a significant amount of nondefense activities carried on by companies and establishments classified in the above industries. For example, the data cover the production of commercial as well as military aircraft. On the other hand, they exclude significant amounts of defense work carried on by companies and establishments classified in industries other than those listed above (e.g., the manufacture of military uniforms and the shipbuilding industry).²

Census data for "defense products" are based on separate reports on defense work filed by large defense contractors in the ordnance, communications, complete aircraft, aircraft parts, and shipbuilding industries. Thus, they differ from the "defense products industries" data in that they include defense activity in the shipbuilding industry and exclude nondefense work in the other industries covered. Defense products data cover work for the Department of Defense and exclude contracts for the National Aeronautics and Space Administration and the Atomic Energy Commission.

The DOD data are not strictly comparable in coverage with either the BLS or the Census data since the Defense Department figures (1) cover products of industries not included in the defense products category; (2) generally do not include non-defense activities (except that some series, such as contract awards, include activities by the Department of Defense on behalf of nondefense agencies); and (3) do not cover intermediate activities such as those related to subcontracting and supplying of parts. Thus, the Census Bureau data for manufacturers' new orders and shipments of defense products industries, for example, differ in coverage from the DOD contract awards and net outlays series.

The Department of Defense data are not comparable with Federal Government purchases of goods and services for national defense or the Treasury Department obligations and outlays data since the BEA and Treasury data cover defense-related activities of other agencies such as the Atomic Energy Commission, the Selective Service System, and the Office of Emergency Planning.

Projects to improve the comparability of the data collected by the Bureau of the Census, the Bureau of Labor Statistics, and the Department of Defense and to improve the separation of defense and nondefense activity for the Census and BLS data are being undertaken by the statistical agencies under the leadership of the Interagency Committee mentioned earlier in this report.

²See the Bureau of the Census publication *Shipments of Defense-Oriented Industries*, Current Industrial Reports, Series MA-175, for annual estimates of shipments by industry to the Department of Defense, the National Aeronautics and Space Administration, and the Atomic Energy Commission. Included also are industries not covered by the "defense products industries" category.

Variability of Data

Seasonal variations dominate the movements of many time series, and adjustments for average seasonal fluctuations are often necessary to bring out the underlying trends of the series. These seasonal adjustments allow for the effects of repetitive intrayear variations resulting primarily from normal differences in weather conditions and from various institutional arrangements. An additional adjustment is sometimes necessary for series which contain considerable variation resulting from the number of working or trading days in each month. As used in this report, the term "seasonal adjustment" includes trading-day adjustments where they have been made.

Most of the series in this report are shown in seasonally adjusted form. For Defense Department and BLS series, unadjusted data are also shown since they are not readily available elsewhere. Current seasonal adjustment factors are shown in appendix A.

The effect of seasonal adjustment in reducing the month-to-month variation in the data can be seen in appendix B. There, the first two columns show the average month-to-month percent change (without regard to sign) in the data before and after seasonal adjustment. Some series still show very irregular month-to-month movements after adjustment for seasonal variation. The measures in appendix B also indicate the month-to-month variation in the irregular and short-term trend components of the series. For many series, irregular movements tend to dominate 1- or 2-month comparisons, and the underlying short-term trend becomes dominant in comparisons over longer spans. The "months for cyclical dominance" (MCD) measure estimates the span of months required for the short-term trend to dominate the irregular component. Series with an MCD of 4 or more are supplemented with a moving average (with the

number of terms equal to MCD) in the charts. Data for these moving averages are listed in the basic data tables.

Guide to Charts and Tables

Most series are plotted on a standard ratio scale so that equal percent changes cover the same vertical distance. For these series, an increase of 100 percent covers approximately 1 inch. Arithmetic scales are used for series with zero or negative data, series which could approach zero (e.g., average overtime hours and layoff rate), and series expressed in percent.

In general, monthly data are plotted with a solid line and quarterly data are represented by a solid line with quarterly plot points. Quarterly series are also identified with a "Q" after their titles. For series which include a moving average, a dashed line is used for the actual monthly data and a solid line for the moving average. (The moving average values are centered within the span of months they are computed from.) Exceptions to this scheme may be necessary for special situations. Data apply to the whole period except for series designated "EOM" (end of month) or "EOQ" (end of quarter). The number in the box at the right of each series indicates the latest month (Arabic) or quarter (Roman) plotted. Parallel lines across a series indicate a break in continuity (e.g., data not available or change in series definition).

Tables 1, 2, 3, and 4 present current data for the series shown in the charts, including the moving averages. They also include unadjusted data for some series and data for related series which are not plotted. Table A summarizes the most recent data and percent changes for many of the series in the report. Historical data are shown on an intermittent basis in appendix C. (The index indicates the appropriate issue for each series.)

New Features and Changes for This Issue

Appendix C contains historical data for series 625-638 and 640.

The November issue of DEFENSE INDICATORS is scheduled for release on December 1.

Table A. Summary of Recent Data and Current Percent Changes for Principal Defense Indicators

(Preliminary and revised figures are not identified here but the user may consult tables 1, 2, 3, and 4 where such identification is given)

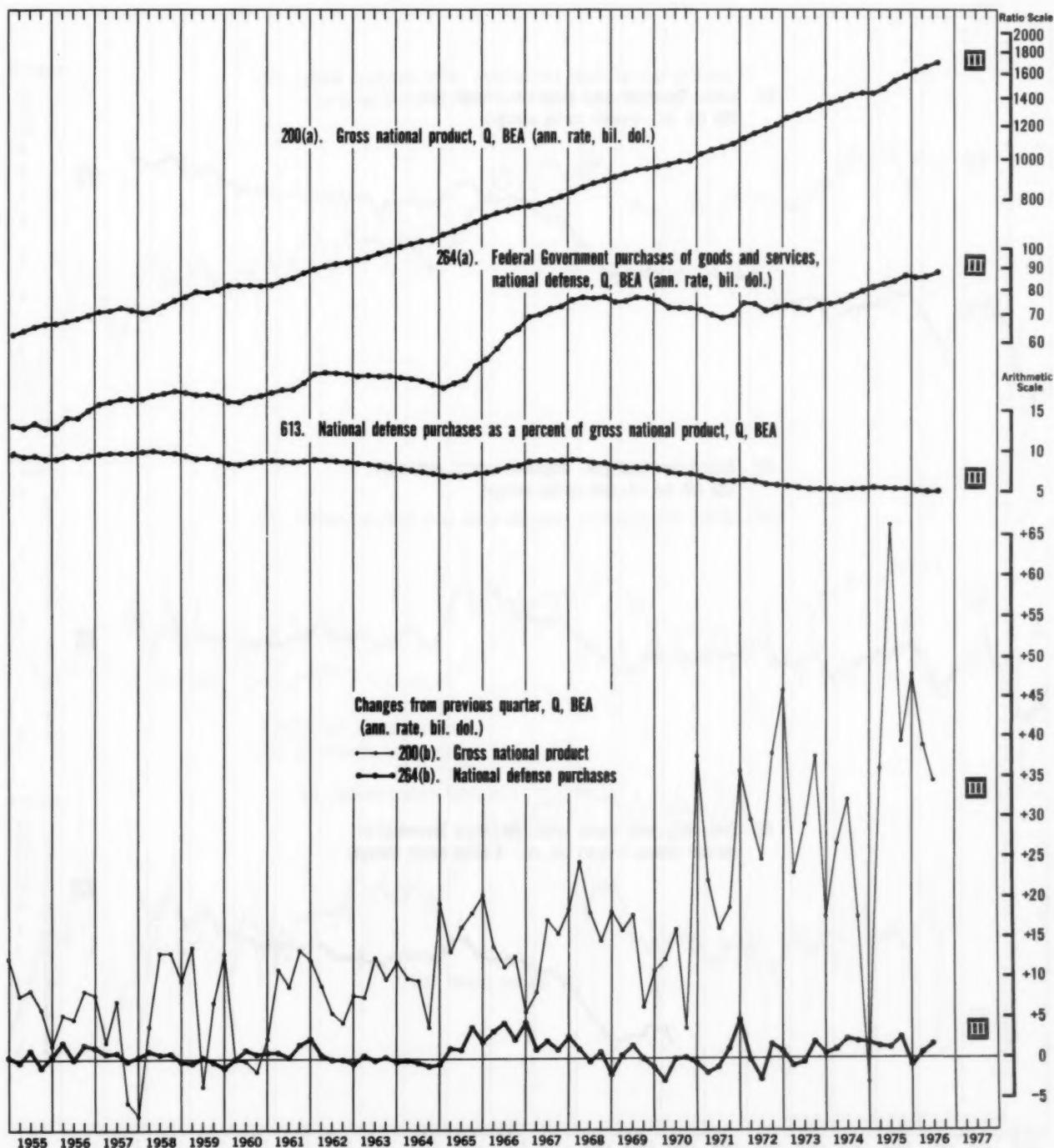
Series title	Unit of measure	Basic data							Percent change				Series number	
		Average		1st Q 1976	2d Q 1976	3d Q 1976	July 1976	Aug. 1976	Sept. 1976	July '76 to Aug. '76	Aug. '76 to Sept. '76	1st Q '76 to 2d Q '76	2d Q '76 to 3d Q '76	
		1974	1975											
GROSS NATIONAL PRODUCT AND NATIONAL DEFENSE PURCHASES														
200. Gross national product (BEA)	Ann. rate, bil. dol.	1413.2	1516.3	1636.2	1675.2	1709.7	....	....	....	....	....	2.4	2.1	200
264. Federal Government purchases of goods and services, national defense (BEA) . . . . .	.... do	77.3	84.3	86.2	86.9	88.6	....	....	....	....	....	0.8	2.0	264
613. National defense purchases as a percent of GNP (BEA) ¹	Percent	5.5	5.6	5.3	5.2	5.2	....	....	....	....	....	-0.1	0.0	613
ADVANCE INDICATORS OF DEFENSE ACTIVITY														
Defense Dept. gross obligations incurred (DOD):														
617. Total	Ann. rate, bil. dol.	93.9	98.5	99.7	105.6	NA	97.4	82.0	NA	-15.8	NA	5.9	NA	617
621. Procurement . . . . .	.... do	20.6	20.4	21.1	24.7	NA	27.4	18.7	NA	-31.8	NA	17.1	NA	621
623. Gross obligations incurred outside the Federal Government for national defense (Treasury) . . . . .	.... do	101.1	104.1	116.0	NA	NA	NA	NA	NA	NA	NA	NA	NA	623
625. Defense Department military prime contract awards for work performed in the U.S. (DOD) . . . . .	.... do	41.4	43.3	50.8	43.9	NA	26.8	44.0	NA	64.2	NA	-13.6	NA	625
643. Defense Department gross unpaid obligations outstanding (DOD)	Bil. dol., end of period	40.0	40.9	41.9	44.1	NA	43.8	41.3	NA	-5.7	NA	5.3	NA	643
648. Mfrs.' new orders, defense products (Census)	Ann. rate, bil. dol.	22.8	21.2	23.2	26.2	16.3	11.9	23.6	13.5	98.3	-42.8	12.9	-37.8	648
650. Manufacturers' new orders from the U.S. Government, aerospace industries (Census) . . . . .	.... do	19.1	18.3	21.7	19.5	NA	....	....	....	....	....	-10.1	NA	650
653. Average weekly overtime hours, production workers, defense products industries (BLS) ¹	Hours	2.6	2.5	2.6	2.4	NA	2.7	2.5	NA	-0.2	NA	-0.2	NA	653
654. Accessions, defense products industries (BLS) ¹	Number per 100 employees	2.1	1.4	1.6	1.5	NA	1.3	NA	NA	NA	NA	-0.1	NA	654
655. Layoffs, defense products industries (BLS) ¹ . . . . .	.... do	0.6	1.2	0.8	0.6	NA	0.8	NA	NA	NA	NA	-0.2	NA	655
INTERMEDIATE AND FINAL INDICATORS OF DEFENSE ACTIVITY														
657. Output of defense and space equipment (FRB)	1967=100	82.4	80.0	77.7	77.9	78.7	78.0	79.0	79.1	1.3	0.1	0.3	1.0	657
659. Mfrs.' inventories, defense products (Census)	Bil. dol., end of period	6.5	7.8	8.1	8.5	NA	8.6	8.6	NA	0.0	NA	4.9	NA	659
661. Mfrs.' unfilled orders, defense products (Census) . . . . .	.... do	24.0	25.4	25.6	26.6	25.3	25.9	26.0	25.3	0.4	-2.7	3.9	-4.9	661
664. Manufacturers' unfilled orders from the U.S. Government, aerospace industries (Census) . . . . .	.... do	20.7	21.8	22.6	22.5	NA	....	....	....	....	....	-0.4	NA	664
666. Defense Department progress payments outstanding (DOD) ¹² . . . . .	.... do	9.2	11.3	9.8	12.0	NA	....	....	....	....	....	22.4	NA	666
Employment in defense products industries (BLS):														
670. Total	Thousands	1,177	1,118	1,078	1,069	1,055	1,050	1,059	1,057	0.9	-0.2	-0.8	-1.3	670
671. Production workers . . . . .	.... do	618	570	540	535	525	516	529	530	2.5	0.2	-0.9	-1.9	671
673. Index of aggregate weekly hours, defense products industries (BLS)	1967=100	69.4	66.0	63.7	62.8	NA	62.2	62.6	NA	0.6	NA	-1.4	NA	673
675. Index of aggregate weekly payrolls, production workers, defense products industries (BLS) . . . . .	.... do	98.2	100.5	100.9	99.6	NA	97.7	101.6	NA	4.0	NA	-1.3	NA	675
677. Military, active duty	Thousands, end of period	2,140	2,084	2,090	2,082	NA	2,087	2,085	NA	-0.1	NA	-0.4	NA	677
678. Civilian, direct hire employment . . . . .	.... do	1,043	1,028	1,016	1,010	NA	1,014	1,006	NA	-0.8	NA	-0.6	NA	678
680. Total, military functions and military assistance	Ann. rate, bil. dol.	83.6	86.5	83.9	85.7	95.8	104.0	89.9	93.5	-13.6	4.0	2.1	11.8	680
682. Procurement . . . . .	.... do	15.5	16.2	15.0	16.9	15.2	15.9	12.7	17.0	-20.1	33.9	12.7	-10.1	682
683. Budget outlays for the national defense function (Treasury) . . . . .	.... do	84.6	92.5	82.0	87.7	96.1	104.6	88.9	94.8	-15.0	6.6	7.0	9.6	683
685. Defense Dept. personnel compensation (DOD) . . . . .	.... do	33.5	34.6	34.2	35.3	NA	35.5	35.6	NA	0.3	NA	3.2	NA	685
688. Mfrs.' shipments, defense products (Census) . . . . .	.... do	18.9	20.4	22.5	22.1	21.4	20.6	21.8	22.0	5.8	0.9	-1.8	-3.2	688
689. Manufacturers' shipments to the U.S. Government, aerospace industries (Census) . . . . .	.... do	15.2	17.3	18.2	20.2	NA	....	....	....	....	....	11.0	NA	689
691. Ratio, manufacturers' unfilled orders to shipments, defense products (Census)	Ratio	14.5	14.9	13.4	14.2	14.4	15.1	14.3	13.8	-5.3	-3.5	6.0	1.4	691
693. Ratio, manufacturers' inventories to shipments, defense products (Census) . . . . .	.... do	3.9	4.3	4.2	4.5	NA	5.0	4.7	NA	-6.0	NA	7.1	NA	693
DEFENSE-RELATED BALANCE OF PAYMENTS COMPONENTS														
546. Transfers under U.S. military agency sales contracts—exports (BEA) ¹	Ann. rate, mil. dol.	2,952	3,897	4,580	4,296	NA	....	....	....	....	....	-284	NA	546
547. Direct defense expenditures—imports (BEA) ¹³ ¹⁴ . . . . .	.... do	5,035	4,780	4,600	4,348	NA	....	....	....	....	....	-252	NA	547
549. U.S. Government cash receipts associated with military sales contracts (BEA) ¹ . . . . .	.... do	2,942	4,591	9,176	7,580	NA	....	....	....	....	....	-1,596	NA	546

NOTE: This table is presented as a convenient summary of the current data for many of the indicators in this report. In many cases, data shown here are rounded to fewer digits or are in different units than those shown in tables 1, 2, 3, and 4. Where available, annual figures are those published by the source agencies; otherwise they (and the quarterly figures for monthly series) are averages or totals of the data as shown in the data tables. Series are seasonally adjusted except for those indicated by ¹⁵, which appear to contain no seasonal movement.

NA = not available.

¹Differences rather than percent changes are shown for this series.

Gross National Product and National Defense Purchases



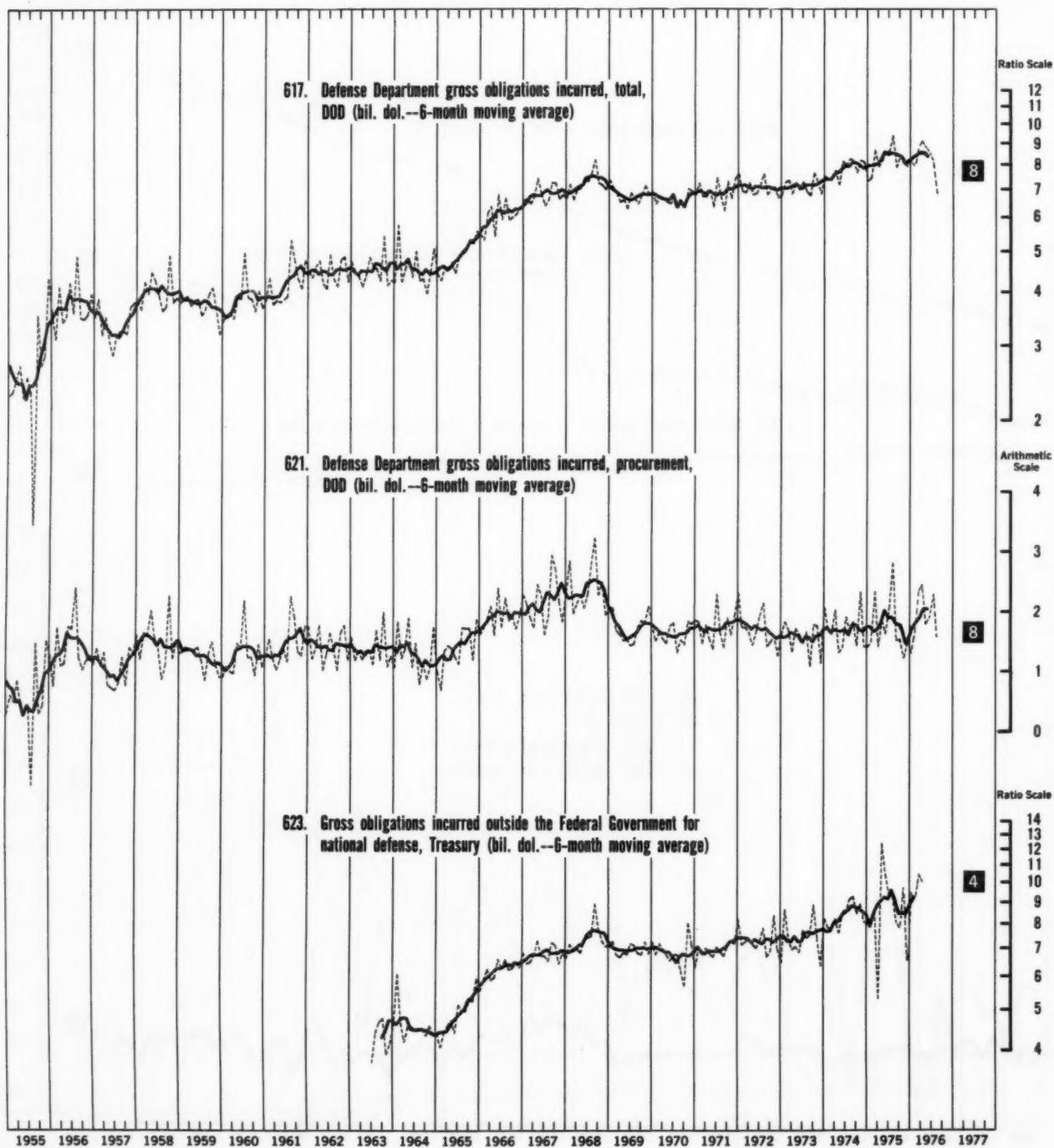
Current data for these series are shown on page 14.

defense indicators

CHART

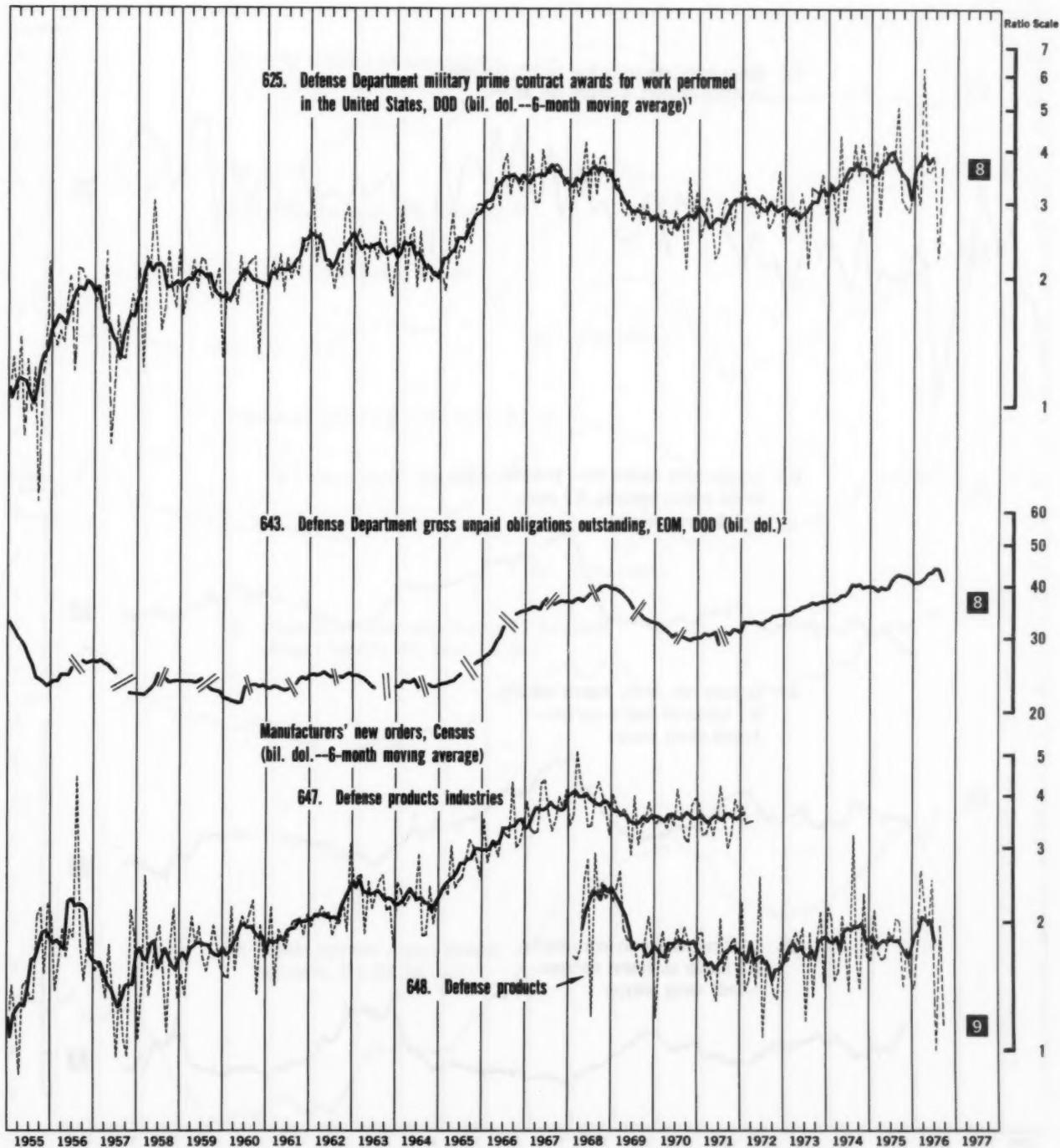
2

Advance Indicators of Defense Activity



Current data for these series are shown on pages 15 and 16.

Advance Indicators of Defense Activity--Continued

¹ Data prior to July 1958 exclude orders written to other Government agencies.² Data for the following months not available: July of 1956-71; August of 1956-57 and 1963-66; September of 1957, 1963, and 1965; and October and November of 1963.

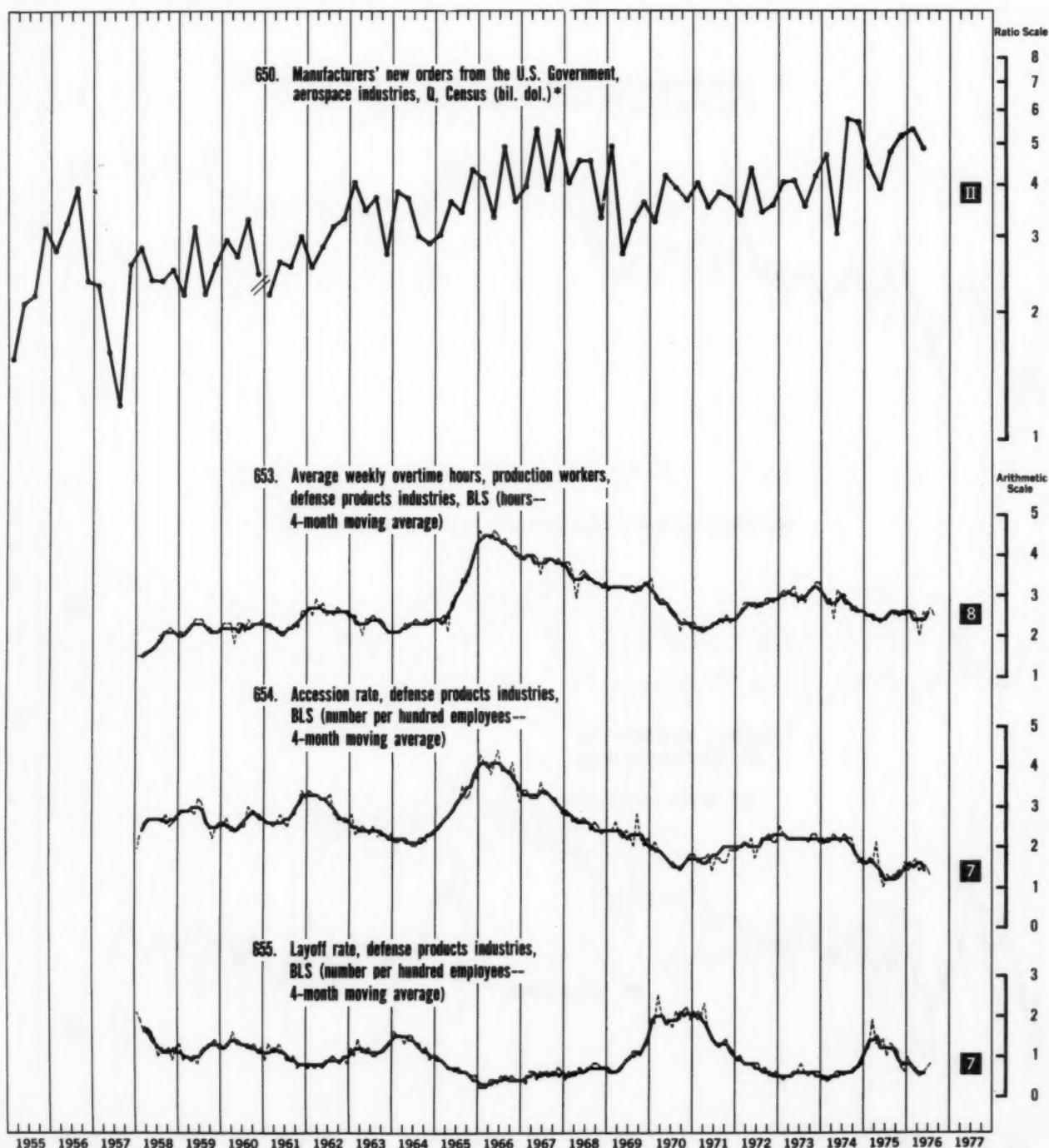
Current data for these series are shown on pages 16 and 20.

defense indicators

CHART

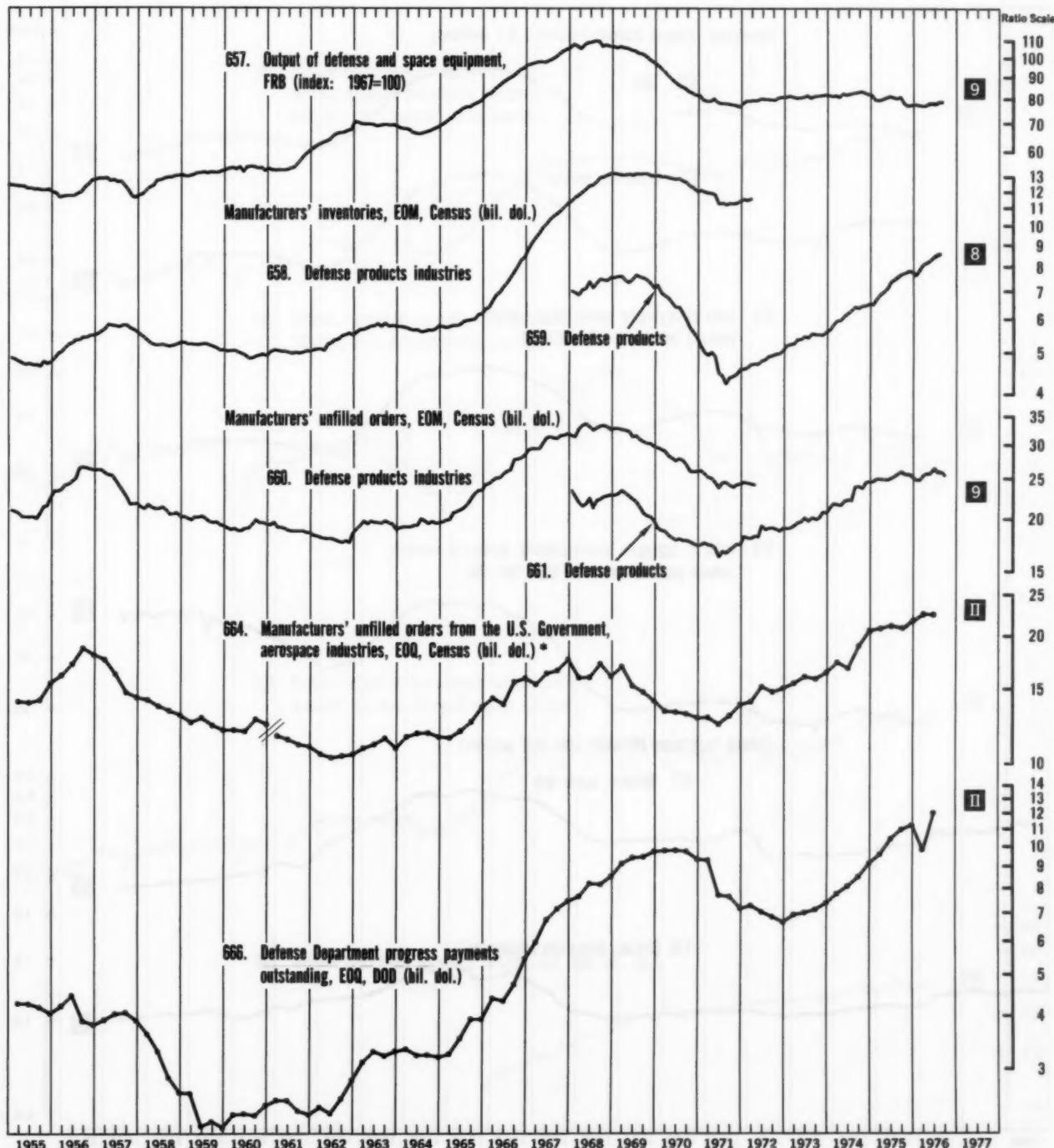
2

Advance Indicators of Defense Activity--Continued



*Data prior to 1961 include orders from non-Government customers.
Current data for these series are shown on pages 20 and 21.

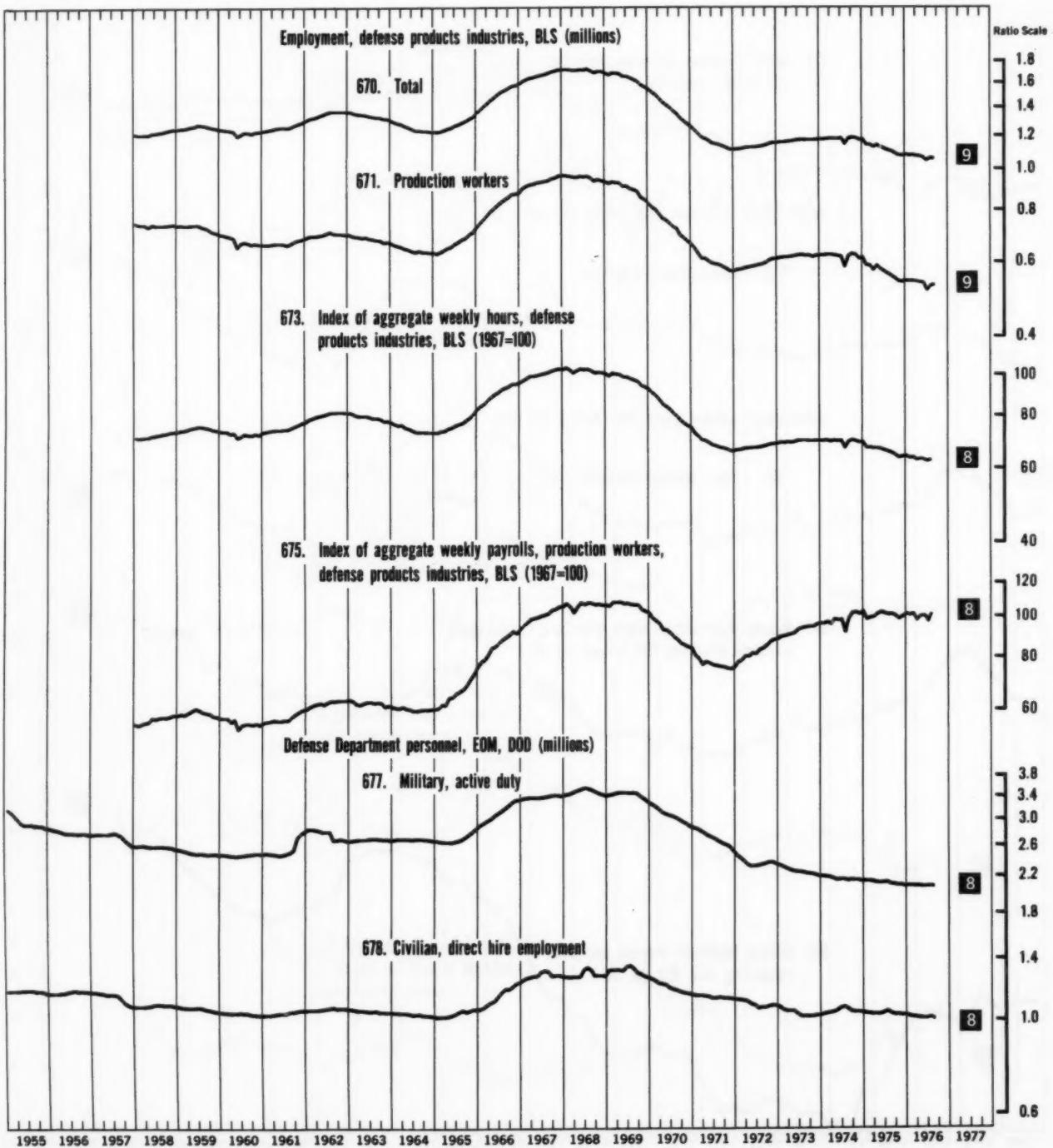
Intermediate and Final Indicators of Defense Activity



*Data prior to 1961 include orders from non-Government customers.

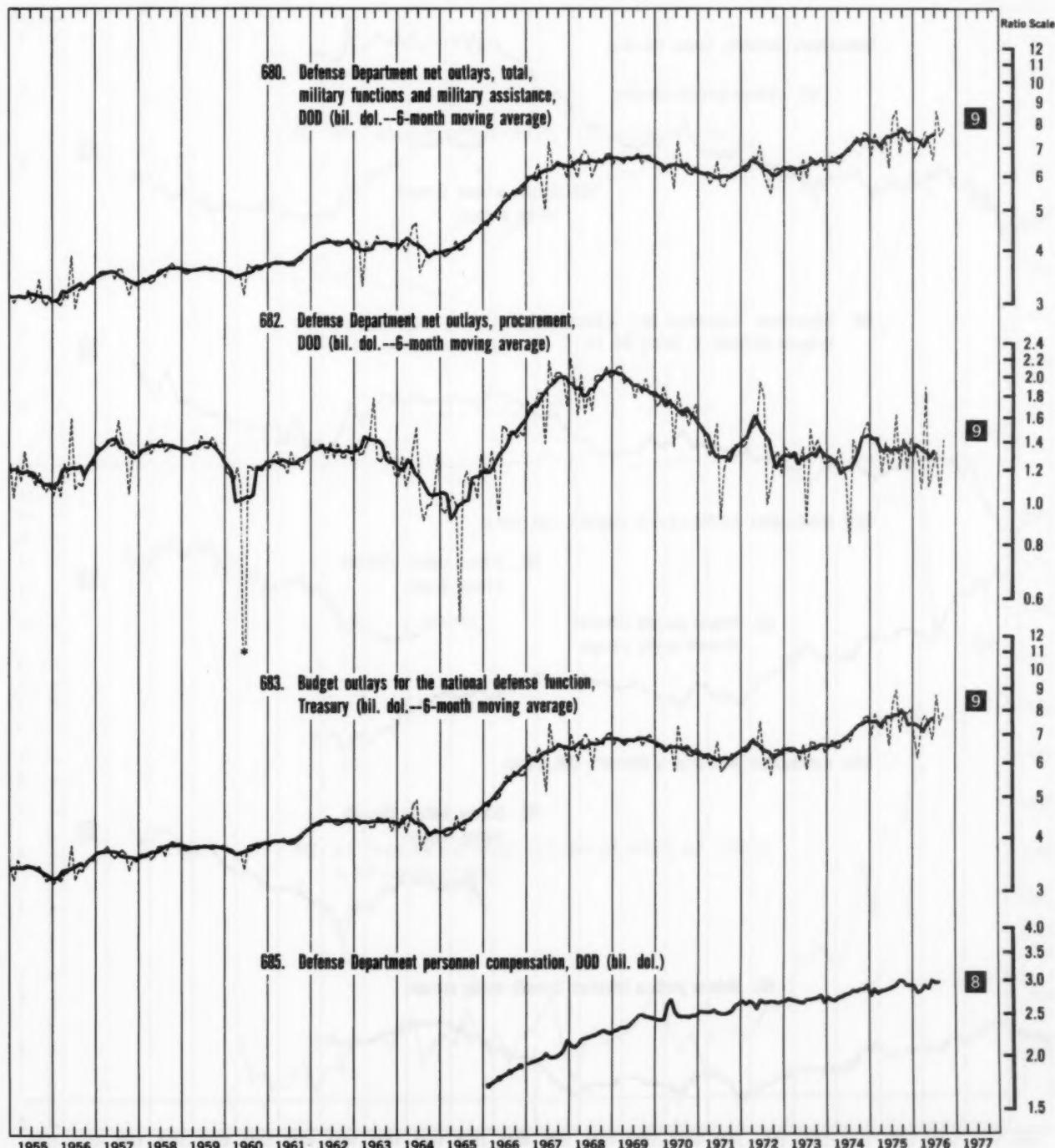
Current data for these series are shown on page 22.

CHART

3**Intermediate and Final Indicators of Defense Activity--Continued**

Current data for these series are shown on pages 22, 23, and 24.

Intermediate and Final Indicators of Defense Activity--Continued



*Net expenditures for procurement, June 1960--\$245 million.

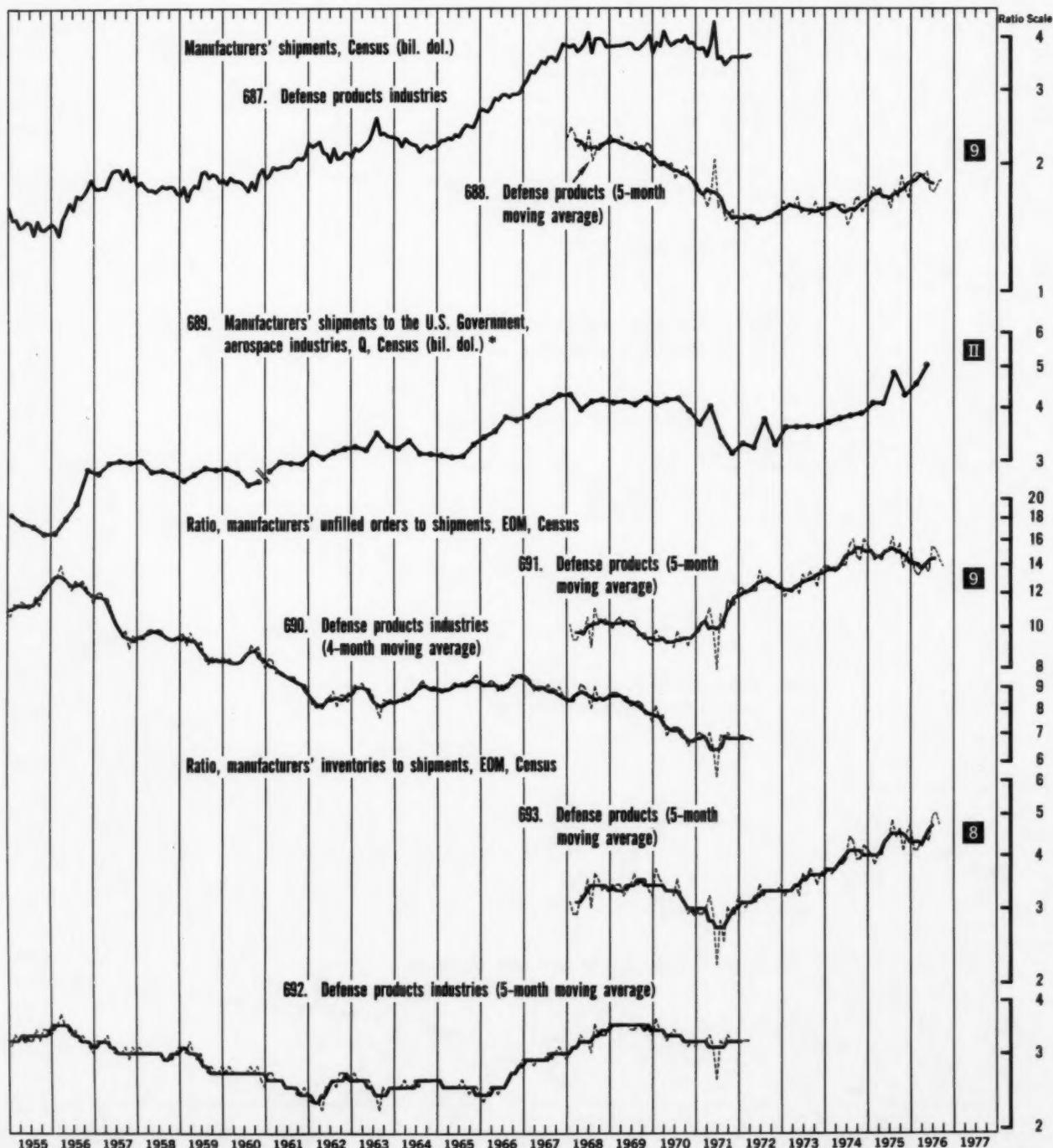
Current data for these series are shown on pages 24 and 25.

defense indicators

CHART

3

Intermediate and Final Indicators of Defense Activity--Continued



*Data prior to 1961 include shipments to non-Government customers.
Current data for these series are shown on page 26.

Defense-Related Balance of Payments Components



*See footnotes 1 and 2 on page 27.

Current data for these series are shown on page 27.

defense indicators

TABLE

1

Gross National Product and National Defense Purchases

Year and month	200(a). Gross national product, BEA*	264(a). Federal Govern- ment purchases of goods and services, national defense, BEA*	613. National defense purchases as a percent of gross national product, BEA*	200(b). Change in gross national product, BEA*	264(b). Change in Federal Government purchases of goods and services, national defense, BEA*
	(Ann. rate, bil. dol.)	(Ann. rate, bil. dol.)	(Percent)	(Ann. rate, bil. dol.)	(Ann. rate, bil. dol.)
1974					
January .....	...	...	...	17.6	0.5
February	1,372.7	74.9	5.5	...	...
March .....	...	...	...	...	...
April .....	...	...	...	26.7	1.0
May	1,399.4	75.9	5.4	...	...
June .....	...	...	...	...	...
July .....	...	...	...	32.2	2.3
August	1,431.6	78.2	5.5	...	...
September .....	...	...	...	...	...
October .....	...	...	...	17.6	2.0
November	1,449.2	80.2	5.5	...	...
December .....	...	...	...	...	...
1975					
January .....	...	...	...	-3.0	1.8
February	1,446.2	82.0	5.7	...	...
March .....	...	...	...	...	...
April .....	...	...	...	36.1	1.4
May	1,482.3	83.4	5.6	...	...
June .....	...	...	...	...	...
July .....	...	...	...	66.4	1.2
August	1,548.7	84.6	5.5	...	...
September .....	...	...	...	...	...
October .....	...	...	...	39.5	2.5
November	1,588.2	87.1	5.5	...	...
December .....	...	...	...	...	...
1976					
January .....	...	...	...	48.0	-0.9
February	1,636.2	86.2	5.3	...	...
March .....	...	...	...	...	...
April .....	...	...	...	39.0	0.7
May	1,675.2	86.9	5.2	...	...
June .....	...	...	...	...	...
July .....	...	...	...	p34.5	p1.7
August	p1,709.7	p88.6	p5.2		
September					
October					
November					
December					

Note: All data on this page are seasonally adjusted. NA=not available; p=preliminary; r=revised; e=estimated. *Indicates series shown in charts. (See page 5.)

Advance Indicators of Defense Activity

Year and month	Defense Department gross obligations incurred, DOD							
	617. Total			619. Operations		621. Procurement		
	Not seasonally adjusted	Seasonally adjusted*	Moving average of seasonally adjusted data— 6-month*	Not seasonally adjusted	Seasonally adjusted	Not seasonally adjusted	Seasonally adjusted*	Moving average of seasonally adjusted data— 6-month*
	(Mil. dol.)	(Mil. dol.)	(Mil. dol.)	(Mil. dol.)	(Mil. dol.)	(Mil. dol.)	(Mil. dol.)	(Mil. dol.)
1974								
January	8,113	7,527	7,374	4,991	4,714	2,337	2,077	1,689
February	6,826	7,398	7,390	4,187	4,758	1,677	1,708	1,731
March	6,613	7,485	7,368	4,377	4,699	1,381	1,642	1,658
April	7,375	7,762	7,588	4,982	4,804	1,546	2,040	1,702
May	6,104	7,187	7,664	4,434	4,662	894	1,330	1,675
June	10,110	8,166	7,810	6,170	5,466	2,465	1,412	1,672
July	9,285	7,983	7,926	5,901	5,110	1,332	1,919	1,706
August	8,874	8,279	7,912	5,224	5,203	1,416	1,692	1,607
September	7,790	8,179	8,083	4,771	5,040	1,919	1,842	1,777
October	7,965	7,681	8,075	5,394	4,999	1,709	1,446	1,780
November	7,600	8,211	7,968	4,471	4,786	2,281	2,349	1,697
December	7,260	8,116	7,832	4,826	5,334	1,646	1,431	1,667
1975								
January	8,252	7,341	7,916	5,471	5,148	1,895	1,424	1,751
February	6,904	7,467	7,958	4,604	5,220	1,569	1,509	1,748
March	7,526	8,677	7,956	4,787	5,251	1,994	2,349	1,665
April	7,403	7,933	8,033	5,424	5,209	1,147	1,425	1,700
May	6,796	8,199	8,246	4,761	5,121	1,147	1,850	1,808
June	11,027	8,583	8,569	6,275	5,560	2,693	1,642	2,027
July	9,903	8,614	8,440	6,641	5,624	1,510	2,074	1,891
August	9,812	9,406	8,516	5,337	5,327	2,508	2,821	1,911
September	7,705	7,907	8,494	5,203	5,442	1,506	1,535	1,808
October	9,045	8,387	8,385	6,130	5,660	1,733	1,543	1,784
November	6,976	8,069	8,304	4,829	5,334	1,320	1,234	1,658
December	7,156	7,925	8,064	4,895	5,373	1,428	1,494	1,456
1976								
January	8,652	8,132	8,220	6,010	5,729	1,697	1,321	1,592
February	7,206	7,962	8,344	4,745	5,203	1,664	1,611	1,745
March	8,241	8,842	8,461	4,995	5,354	2,093	2,349	1,836
April	8,677	9,134	8,556	5,946	5,784	1,688	2,461	1,909
May	6,825	8,772	8,553	4,828	5,419	1,155	1,780	2,069
June	11,319	8,491	8,365	5,949	5,059	3,218	1,930	2,060
July	9,593	8,116	(NA)	6,362	5,369	1,812	2,285	(NA)
August	7,427	6,833	(NA)	5,055	5,010	1,458	1,556	(NA)
September	(NA)			(NA)	(NA)	(NA)	(NA)	
October								
November								
December								

NA=not available; P=preliminary; R=revised; E=estimated.

*Indicates series shown in charts. (See page 6.)

defense indicators

TABLE

2

Advance Indicators of Defense Activity--Continued

Year and month	623. Gross obligations incurred outside the Federal Government for national defense, Treasury		Defense Department military prime contract awards for work performed in the United States, DOD						
			625. Total			626. Aircraft		627. Missile and space systems	
	Seasonally adjusted*	Moving average of seasonally adjusted data— 6-month*	Not seasonally adjusted	Seasonally adjusted*	Moving average of seasonally adjusted data— 6-month*	Not seasonally adjusted	Seasonally adjusted	Not seasonally adjusted	Seasonally adjusted
	(Mil. dol.)	(Mil. dol.)	(Mil. dol.)	(Mil. dol.)	(Mil. dol.)	(Mil. dol.)	(Mil. dol.)	(Mil. dol.)	(Mil. dol.)
1974									
January	8,264	7,784	3,084	3,378	3,123	1,093	...	206	...
February	7,874	7,673	2,613	3,141	3,317	598	2,424	305	844
March	7,819	7,712	2,602	2,677	3,212	517	...	255	...
April	8,270	p8,068	3,127	4,343	3,310	459	...	303	...
May	7,647	p8,112	2,250	2,881	3,329	308	1,104	297	1,271
June	p8,534	p8,333	6,086	3,440	3,498	502	...	323	...
July	8,526	p8,584	3,924	3,494	3,636	1,089	...	618	...
August	9,202	p8,623	4,091	4,153	3,605	591	2,446	430	1,448
September	9,326	p8,842	3,586	3,502	3,754	866	...	848	...
October	8,503	8,776	4,165	4,161	3,603	1,156	...	410	...
November	8,963	8,700	3,207	3,777	3,636	856	2,900	434	1,107
December	8,139	8,545	2,616	2,532	3,609	569	...	361	...
1975									
January	8,069	8,422	3,567	3,693	3,494	1,062	...	346	...
February	8,271	7,894	3,321	3,987	3,488	509	2,147	276	980
March	8,590	8,472	2,625	2,817	3,513	421	...	244	...
April	5,335	p8,863	2,914	4,122	3,720	316	...	377	...
May	12,426	p9,084	2,713	3,926	3,744	386	1,240	242	1,654
June	p10,487	p9,259	6,626	3,773	3,925	732	...	537	...
July	9,397	p9,176	4,376	3,842	3,969	810	...	661	...
August	9,321	p9,592	5,295	5,072	3,776	1,254	2,471	1,070	1,586
September	8,092	p9,137	3,179	3,080	3,600	469	...	379	...
October	7,830	8,479	3,174	2,961	3,493	817	...	463	...
November	9,697	8,492	2,608	2,872	3,420	373	1,807	498	1,327
December	6,537	8,467	2,870	3,130	3,074	483	...	426	...
1976									
January	9,476	8,870	3,288	3,407	3,612	546	...	341	...
February	9,168	9,235	2,529	2,993	3,716	356	3,008	278	1,027
March	10,511	(NA)	5,356	6,309	3,832	2,064	...	243	...
April	10,022	(NA)	2,600	3,586	3,946	326	...	290	...
May			2,563	3,565	3,751	576	2,399	213	1,503
June			6,843	3,817	3,863	1,562	...	602	...
July			2,592	2,234	(NA)	416	...	287	...
August			3,969	3,665	(NA)	914	(NA)	422	(NA)
September			(NA)						
October									
November									
December									

NA=not available; p=preliminary; r=revised; e=estimated.

*Indicates series shown in charts. (See pages 6 and 7.)

Advance Indicators of Defense Activity--Continued

Year and month	628. Ships, not seasonally adjusted	Defense Department military prime contract awards for work performed in the United States, DOD—Continued					
		629. Weapons and ammunition		630. Electronic and communications equipment		631. Combat vehicles	
		Not seasonally adjusted	Seasonally adjusted	Not seasonally adjusted	Seasonally adjusted	Not seasonally adjusted	Seasonally adjusted
	(Mil. dol.)	(Mil. dol.)	(Mil. dol.)	(Mil. dol.)	(Mil. dol.)	(Mil. dol.)	(Mil. dol.)
1974							
January	52	135	...	311	...	102	...
February	212	244	541	415	1,013	5	253
March	103	142	...	206	...	40	...
April	190	170	...	403	...	129	...
May	155	123	680	270	1,110	98	502
June	1,175	554	...	732	...	404	...
July	230	37	...	321	...	59	...
August	625	72	453	402	1,316	104	249
September	134	111	...	352	...	151	...
October	210	122	...	598	...	25	...
November	328	114	334	349	1,239	22	126
December	109	165	...	254	...	81	...
1975							
January	325	125	...	414	...	21	...
February	251	160	515	331	1,379	66	288
March	11	217	...	535	...	52	...
April	621	147	...	313	...	23	...
May	94	128	683	587	1,255	86	191
June	858	672	...	696	...	161	...
July	250	52	...	394	...	126	...
August	814	126	630	470	1,559	70	259
September	439	95	...	430	...	90	...
October	80	128	...	439	...	67	...
November	114	66	303	445	1,277	14	172
December	211	146	...	332	...	62	...
1976							
January	310	76	...	263	...	48	...
February	124	101	341	305	1,079	26	238
March	1,213	148	...	442	...	61	...
April	306	158	...	348	...	32	...
May	65	135	493	381	1,172	63	415
June	346	450	...	735	...	512	...
July	506	52	...	207	...	4	...
August	91	90	(NA)	506	(NA)	150	(NA)
September	(NA)	(NA)					
October							
November							
December							

NA=not available; p=preliminary; r=revised; e=estimated.

defense indicators

TABLE

2

Advance Indicators of Defense Activity--Continued

Year and month	Defense Department military prime contract awards for work performed in the United States, DOD—Continued							
	632. Other hard goods		633. Soft goods		634. Construction		635. Services	
	Not seasonally adjusted	Seasonally adjusted	Not seasonally adjusted	Seasonally adjusted	Not seasonally adjusted	Seasonally adjusted	Not seasonally adjusted	Seasonally adjusted
	(Mil. dol.)	(Mil. dol.)	(Mil. dol.)	(Mil. dol.)	(Mil. dol.)	(Mil. dol.)	(Mil. dol.)	(Mil. dol.)
1974								
January	128	...	297	...	90	...	204	...
February	111	467	145	1,374	52	258	138	900
March	179	...	487	...	92	...	181	...
April	294	...	344	...	248	...	166	...
May	139	564	214	1,081	58	504	168	846
June	352	...	256	...	604	...	524	...
July	163	...	338	...	131	...	451	...
August	158	677	819	890	148	601	303	762
September	129	...	219	...	112	...	233	...
October	108	...	267	...	138	...	446	...
November	127	391	226	692	126	578	185	742
December	135	...	222	...	104	...	181	...
1975								
January	154	...	217	...	168	...	307	...
February	143	497	704	1,489	134	481	341	1,396
March	152	...	191	...	127	...	201	...
April	147	...	164	...	156	...	190	...
May	165	487	121	658	291	838	211	925
June	399	...	213	...	1,073	...	574	...
July	104	...	811	...	82	...	634	...
August	115	532	307	937	61	486	570	1,136
September	150	...	256	...	178	...	204	...
October	201	...	173	...	149	...	216	...
November	156	631	214	687	56	605	210	523
December	179	...	244	...	176	...	121	...
1976								
January	190	...	817	...	85	...	244	...
February	180	590	330	1,611	107	448	256	1,111
March	166	...	187	...	151	...	230	...
April	173	...	221	...	198	...	179	...
May	159	434	120	780	213	611	158	881
June	316	...	243	...	791	...	587	...
July	92	...	287	...	79	...	335	...
August	177	(NA)	513	(NA)	196	(NA)	504	(NA)
September			(NA)		(NA)		(NA)	
October								
November								
December								

NA=not available; p=preliminary; r=revised; e=estimated.

Advance Indicators of Defense Activity--Continued

Year and month	Defense Department military prime contract awards for work performed in the United States, DOD—Continued					640. Defense Department military prime contract awards for work outside the United States, DOD	
	636. Contracts under \$10,000		637. Educational and nonprofit institutions		638. Civilian Health and Medical Program of the Uniformed Services (CHAMPUS), not seasonally adjusted		
	Not seasonally adjusted	Seasonally adjusted	Not seasonally adjusted	Seasonally adjusted	Not seasonally adjusted	Seasonally adjusted	
	(Mil. dol.)	(Mil. dol.)	(Mil. dol.)	(Mil. dol.)	(Mil. dol.)	(Mil. dol.)	(Mil. dol.)
1974							
January	327	...	76	...	63	160	...
February	333	996	55	233	0	114	594
March	329	...	58	...	13	198	...
April	384	...	37	...	0	80	...
May	382	1,066	38	186	0	94	559
June	570	...	70	...	20	333	...
July	225	...	162	...	100	421	...
August	321	1,116	118	243	0	448	632
September	380	...	51	...	0	120	...
October	399	...	46	...	240	190	...
November	374	1,204	59	187	7	93	559
December	343	...	92	...	0	111	...
1975							
January	372	...	51	...	5	114	...
February	345	1,144	61	205	0	93	388
March	419	...	53	...	2	96	...
April	418	...	42	...	0	73	...
May	367	1,141	35	201	0	86	813
June	635	...	76	...	0	558	...
July	263	...	184	...	5	244	...
August	345	1,218	92	253	1	149	317
September	409	...	80	...	0	124	...
October	374	...	67	...	0	252	...
November	412	1,273	50	192	0	164	941
December	408	...	82	...	0	255	...
1976							
January	327	...	39	...	2	286	...
February	416	1,156	48	163	2	95	681
March	405	...	44	...	2	139	...
April	300	...	68	...	1	147	...
May	430	1,100	50	254	0	93	609
June	625	...	73	...	1	306	...
July	253	...	74	...	0	208	...
August	351	(NA)	55	(NA)	(NA)	132	(NA)
September	(NA)		(NA)			(NA)	
October							
November							
December							

NA=not available; P=preliminary; R=revised; E=estimated.

defense indicators

TABLE

2

Advance Indicators of Defense Activity--Continued

Year and month	Defense Department gross unpaid obligations outstanding, DOD						648. Manufacturers' new orders, defense products, Census	650. Manufac- turers' new orders from the U.S. Govern- ment, aerospace industries, Census, seasonally adjusted*		
	643. Total		644. Operations		645. Procurement					
	Not seasonally adjusted	Seasonally adjusted*	Not seasonally adjusted	Seasonally adjusted	Not seasonally adjusted	Seasonally adjusted				
	(Mil. dol.)	(Mil. dol.)	(Mil. dol.)	(Mil. dol.)	(Mil. dol.)	(Mil. dol.)	(Mil. dol.)	(Mil. dol.)		
1974										
January	38,249	37,280	7,425	6,959	23,791	23,143	2,183	1,852		
February	37,963	37,001	7,055	6,964	24,032	23,175	2,064	1,802		
March	37,249	37,436	6,779	7,189	23,847	23,634	1,462	1,794		
April	37,264	38,141	7,044	7,550	23,778	23,970	1,527	1,844		
May	35,601	38,076	6,476	7,301	23,123	23,987	2,079	1,710		
June	37,545	38,947	7,373	8,417	23,994	23,756	1,752	1,904		
July	439,626	440,435	88,149	88,392	824,316	824,914	1,377	1,940		
August	40,594	40,152	8,426	8,010	23,791	24,351	3,229	1,919		
September	41,055	40,488	8,311	7,991	24,283	24,703	1,678	1,965		
October	41,201	39,731	8,607	7,610	24,361	24,337	1,401	1,951		
November	40,949	40,068	7,906	7,334	25,147	25,022	2,351	1,994		
December	40,407	40,047	7,654	7,556	25,199	25,024	1,668	1,813		
1975										
January	40,819	39,823	7,997	7,495	25,484	24,838	1,635	1,817		
February	40,008	39,147	7,520	7,460	25,452	24,568	2,147	1,857		
March	39,473	39,791	7,169	7,651	25,688	25,259	1,702	1,742		
April	38,589	39,457	7,276	7,807	24,932	24,957	1,639	1,782		
May	37,120	39,658	6,746	7,666	24,321	25,099	1,659	1,812		
June	39,557	41,334	7,303	8,346	25,311	25,438	1,909	1,796		
July	41,470	42,144	88,733	88,939	825,167	825,370	1,818	1,844		
August	43,248	42,651	8,677	8,280	26,070	26,684	2,048	1,806		
September	43,084	42,281	8,677	8,287	26,002	26,479	1,991	1,821		
October	43,754	42,193	9,259	8,172	26,081	26,238	1,408	1,753		
November	42,767	41,724	8,804	8,144	25,810	25,707	1,750	1,681		
December	41,551	40,897	8,261	8,155	25,507	25,305	1,501	1,637		
1976										
January	42,110	40,804	8,947	8,489	25,503	24,905	1,390	1,744		
February	41,512	41,101	8,538	8,624	25,586	24,841	1,784	1,858		
March	41,046	41,926	7,966	8,584	25,783	25,277	2,633	1,892		
April	41,029	42,962	8,253	8,865	25,606	25,657	2,093	2,061		
May	39,742	43,245	7,795	8,960	25,125	25,929	1,950	1,994		
June	42,152	44,092	8,037	8,980	26,508	26,482	2,517	2,024		
July	43,366	43,804	8,939	8,842	26,537	27,162	989	p1,773		
August	42,525	41,286	8,569	8,061	26,346	26,802	r1,963	(NA)		
September		(NA)		(NA)		(NA)	p1,127			
October										
November										
December										

NA=not available; p=preliminary; r=revised; e=estimated.

*Indicates series shown in charts. (See pages 7 and 8.)

Advance Indicators of Defense Activity--Continued

Year and month	653. Average weekly overtime hours, production workers, defense products industries, BLS			654. Accession rate, defense products industries, BLS			655. Layoff rate, defense products industries, BLS		
	Not seasonally adjusted (Hours)	Seasonally adjusted* (Hours)	Moving average of seasonally adjusted data—4-month* (Hours)	Not seasonally adjusted (Per 100 employees)	Seasonally adjusted* (Per 100 employees)	Moving average of seasonally adjusted data—4-month* (Per 100 employees)	Not seasonally adjusted (Per 100 employees)	Seasonally adjusted* (Per 100 employees)	Moving average of seasonally adjusted data—4-month* (Per 100 employees)
1974									
January	2.9	3.0	3.1	2.1	2.2	2.2	0.6	0.4	0.5
February	2.7	2.8	3.0	1.8	2.1	2.1	0.6	0.5	0.5
March	2.8	2.9	2.8	1.9	2.1	2.2	0.6	0.4	0.4
April	2.1	2.4	2.8	2.1	2.3	2.2	0.6	0.5	0.5
May	2.8	3.1	2.8	2.2	2.2	2.2	0.5	0.6	0.5
June	3.0	3.0	2.9	2.8	2.1	2.2	0.5	0.6	0.5
July	2.7	3.0	3.0	2.6	2.3	2.2	0.4	0.5	0.6
August	2.8	2.8	2.8	2.6	2.2	2.2	0.5	0.6	0.6
September	2.9	2.6	2.8	2.6	2.2	2.1	0.5	0.6	0.6
October	2.8	2.7	2.7	2.1	1.9	2.0	0.7	0.7	0.6
November	2.9	2.6	2.6	1.3	1.6	1.8	0.8	0.7	0.7
December	3.0	2.6	2.6	0.9	1.7	1.7	0.8	0.8	0.8
1975									
January	2.4	2.5	2.6	1.4	1.6	1.6	1.2	1.1	1.0
February	2.4	2.5	2.5	1.3	1.6	1.6	1.3	1.2	1.2
March	2.3	2.5	2.5	1.3	1.6	1.7	2.1	1.9	1.4
April	2.1	2.4	2.4	1.9	2.1	1.6	1.4	1.3	1.4
May	2.0	2.3	2.4	1.3	1.3	1.5	1.3	1.3	1.5
June	2.5	2.4	2.4	1.7	1.0	1.4	1.3	1.4	1.2
July	2.2	2.5	2.4	1.6	1.3	1.2	0.8	1.0	1.2
August	2.6	2.6	2.5	1.6	1.2	1.2	1.2	1.3	1.2
September	2.8	2.5	2.6	1.7	1.3	1.2	1.0	1.2	1.2
October	2.7	2.6	2.6	1.4	1.2	1.2	1.0	1.1	1.1
November	2.7	2.5	2.5	1.0	1.3	1.4	0.8	0.7	0.9
December	2.9	2.5	2.6	0.8	1.6	1.4	0.6	0.6	0.8
1976									
January	2.5	2.6	2.6	1.3	1.4	1.5	1.1	1.0	0.8
February	2.5	2.6	2.6	1.3	1.6	1.6	0.8	0.7	0.8
March	2.4	2.5	2.4	1.5	1.7	1.5	0.8	0.7	0.7
April	1.7	2.0	2.4	1.2	1.4	1.6	0.6	0.5	0.6
May	2.3	2.6	2.4	1.6	1.6	1.6	0.6	0.6	0.6
June	2.5	2.5	2.4	2.1	1.5	1.4	0.6	0.7	0.6
July	2.4	2.7	p2.6 (NA)	1.6 (NA)	1.3 (NA)	(NA)	0.7 (NA)	0.8 (NA)	(NA)
August	p2.5 (NA)	p2.5 (NA)							
September									
October									
November									
December									

NA=not available; p=preliminary; r=revised; e=estimated.

*Indicates series shown in charts. (See page 8.)

defense indicators

TABLE

3

Intermediate and Final Indicators of Defense Activity

Year and month	657. Output of defense and space equipment, FRB, seasonally adjusted*	659. Manufacturers' inventories, defense products, Census, seasonally adjusted*	661. Manufacturers' unfilled orders, defense products, Census, seasonally adjusted*	664. Manufacturers' unfilled orders from the U.S. Gov- ernment, aerospace industries, Census, seasonally adjusted*	666. Defense Department progress payments out- standing, DOD, not seasonally adjusted*	670. Employment in defense products industries, total, BLS	
	(Index: 1967=100)	(Mil. dol.)	(Mil. dol.)	(Mil. dol.)	(Mil. dol.)	(Thous.)	(Thous.)
Revised ¹							
1974							
January	81.9	5,679	21,372	...	...	1,181	1,177
February	81.6	5,837	21,827	...	...	1,176	1,176
March	81.8	5,966	21,678	17,378	7,781	1,175	1,180
April	81.1	5,978	21,622	...	...	1,174	1,181
May	82.7	6,119	22,107	...	...	1,170	1,179
June	82.1	6,201	22,261	16,847	8,104	1,175	1,179
July	82.6	6,303	22,208	...	...	1,176	1,184
August	83.0	6,431	23,941	...	...	1,140	1,147
September	83.2	6,377	23,979	19,002	8,531	1,185	1,181
October	83.7	6,463	23,715	...	...	1,196	1,188
November	83.2	6,477	24,530	...	...	1,196	1,183
December	82.4	6,543	24,612	20,662	9,166	1,184	1,171
1975							
January	82.1	6,503	24,603	...	...	1,178	1,175
February	79.9	6,714	24,998	...	...	1,141	1,141
March	79.7	6,867	24,986	20,907	9,609	1,137	1,142
April	80.2	6,978	24,883	...	...	1,121	1,128
May	80.9	7,110	24,875	...	...	1,131	1,140
June	81.6	7,367	25,118	21,230	10,464	1,123	1,127
July	81.0	7,455	25,368	...	...	1,110	1,117
August	80.6	7,575	25,685	...	...	1,100	1,108
September	81.2	7,687	26,011	20,906	11,008	1,104	1,100
October	78.5	7,730	25,552	...	...	1,097	1,090
November	77.3	7,824	25,566	...	...	1,089	1,077
December	77.7	7,806	25,403	21,776	11,257	1,088	1,075
1976							
January	78.0	7,642	24,942	...	...	1,084	1,081
February	77.6	7,845	24,827	...	...	1,075	1,076
March	77.4	8,082	25,574	r22,596	9,848	1,071	1,077
April	77.3	8,165	25,805	...	...	1,066	1,072
May	78.2	8,272	25,831	...	...	1,061	1,070
June	78.3	8,473	26,620	p22,537	12,041	1,060	1,064
July	r78.0	8,554	25,896	...	...	r1,043	r1,050
August	r79.0	8,594	r26,043	...	...	r1,052	r1,059
September	p79.1	(NA)	p25,339	(NA)	(NA)	p1,060	p1,057
October							
November							
December							

NA=not available; p=preliminary; r=revised; e=estimated. *Indicates series shown in charts. (See pages 9 and 10.)

¹ See "New Features and Changes for This Issue," page 3.

Intermediate and Final Indicators of Defense Activity--Continued

Year and month	671. Employment in defense products industries, production workers, BLS		673. Index of aggregate weekly hours, defense products industries, BLS		675. Index of aggregate weekly payrolls, production workers, defense products industries, BLS	
	Not seasonally adjusted	Seasonally adjusted*	Not seasonally adjusted	Seasonally adjusted*	Not seasonally adjusted	Seasonally adjusted*
	(Thous.)	(Thous.)	(1967=100)	(1967=100)	(1967=100)	(1967=100)
1974						
January	627	623	69.8	69.8	96.7	96.5
February	623	622	69.6	69.6	96.5	96.3
March	621	624	69.7	69.9	97.0	97.2
April	620	624	68.7	69.4	94.1	95.9
May	615	622	69.4	69.8	97.6	98.7
June	616	620	69.3	69.5	96.9	98.0
July	612	618	68.7	69.8	94.9	98.5
August	576	584	66.3	67.0	89.6	91.9
September	621	619	69.7	69.3	99.8	99.0
October	632	627	70.4	70.0	103.2	102.0
November	634	624	70.7	69.5	105.3	102.2
December	623	611	70.5	69.1	106.3	101.2
1975						
January	618	615	69.2	69.2	102.8	102.6
February	589	589	67.0	67.0	98.6	98.4
March	585	588	66.8	67.0	99.1	99.4
April	570	574	66.1	66.8	97.6	99.5
May	581	588	66.5	66.8	100.2	101.3
June	573	577	66.4	66.6	101.2	102.3
July	564	570	65.0	66.1	97.9	101.7
August	555	563	64.9	65.6	98.3	101.0
September	558	556	65.5	65.1	102.0	101.2
October	554	549	64.9	64.5	101.5	100.4
November	549	540	64.6	63.5	101.8	98.7
December	549	538	65.0	63.8	104.9	99.8
1976						
January	545	542	64.1	64.1	101.3	101.1
February	540	540	63.5	63.5	100.7	100.4
March	537	539	63.3	63.6	100.8	101.1
April	533	537	62.0	62.7	96.1	98.1
May	530	536	62.6	63.0	99.2	100.2
June	529	533	62.6	62.8	99.4	100.5
July	r510	516	61.2	62.2	r96.0	r97.7
August	r521	r529	p61.9 (NA)	p62.6 (NA)	p98.8 (NA)	p101.6 (NA)
September	p531					
October						
November						
December						

NA=not available; p=preliminary; r=revised; e=estimated. *Indicates series shown in charts. (See page 10.)

defense indicators

TABLE

3

Intermediate and Final Indicators of Defense Activity--Continued

Year and month	Defense Department personnel, DOD		Defense Department net outlays, DOD				
	677. Military, active duty, not seasonally adjusted*	678. Civilian, direct hire employment, not seasonally adjusted*	680. Total, military functions and military assistance			681. Operations	
			Not seasonally adjusted	Seasonally adjusted*	Moving average of seasonally adjusted data—6-month*	Not seasonally adjusted	Seasonally adjusted
	(Thous.)	(Thous.)	(Mil. dol.)	(Mil. dol.)	(Mil. dol.)	(Mil. dol.)	(Mil. dol.)
1974							
January	2,199	1,034	6,728	6,538	6,524	4,376	4,333
February	2,195	1,039	6,384	6,717	6,527	4,137	4,313
March	2,187	1,042	6,702	6,536	6,537	4,398	4,364
April	2,174	1,046	6,685	6,458	6,648	4,367	4,221
May	2,156	1,053	7,204	6,745	6,712	4,718	4,536
June	2,162	1,070	7,872	6,894	6,801	4,835	4,296
July	2,162	1,074	5,979	6,921	6,956	4,628	4,917
August	2,153	1,064	6,897	7,254	7,068	4,804	4,957
September	2,157	1,049	6,948	7,463	7,218	4,575	4,828
October	2,156	1,046	7,271	7,130	7,328	4,817	4,853
November	2,154	1,046	7,473	7,648	7,302	4,912	5,042
December	2,140	1,043	7,451	7,549	7,358	4,742	4,843
1975							
January	2,145	1,038	7,051	6,766	7,312	4,775	4,605
February	2,146	1,036	7,258	7,590	7,284	4,727	4,907
March	2,137	1,034	7,244	7,190	7,258	4,736	4,778
April	2,127	1,034	7,190	6,958	7,056	4,960	4,744
May	2,124	1,035	7,780	7,494	7,308	4,909	4,963
June	2,128	1,042	7,476	6,336	7,475	4,954	4,395
July	2,129	1,052	7,124	8,278	7,423	4,918	5,154
August	2,111	1,038	7,961	8,594	7,552	5,081	5,242
September	2,105	1,030	6,631	6,880	7,566	4,810	5,082
October	2,097	1,031	7,913	7,732	7,788	5,260	5,213
November	2,099	1,029	7,203	7,574	7,515	4,997	5,131
December	2,084	1,028	7,695	7,672	7,251	5,078	5,068
1976							
January	2,092	1,023	6,649	6,636	7,326	4,887	4,892
February	2,093	1,019	6,962	7,011	7,322	4,848	4,825
March	2,090	1,016	7,642	7,334	7,259	5,026	4,966
April	2,087	1,011	7,872	7,703	7,068	5,297	5,193
May	2,081	1,010	7,042	7,200	7,406	4,889	5,035
June	2,082	1,010	7,843	6,525	7,486	5,170	4,687
July	2,087	1,014	7,433	8,663	p7,562	5,050	5,260
August	p2,085	1,006	x7,163	x7,493		x5,059	x5,100
September	(NA)	(NA)	p7,508	p7,788		p5,429	p5,551
October							
November							
December							

NA=not available; p=preliminary; r=revised; e=estimated.

*Indicates series shown in charts. (See pages 10 and 11.)

Intermediate and Final Indicators of Defense Activity--Continued

Year and month	Defense Department net outlays, DOD—Continued			683. Budget outlays for the national defense function, Treasury		685. Defense Department personnel compensation, DOD	
	682. Procurement			Seasonally adjusted*	Moving average of seasonally adjusted data—6-month*	Not seasonally adjusted	Seasonally adjusted*
	Not seasonally adjusted	Seasonally adjusted*	Moving average of seasonally adjusted data—6-month*				
(Mil. dol.)	(Mil. dol.)	(Mil. dol.)	(Mil. dol.)	(Mil. dol.)	(Mil. dol.)	(Mil. dol.)	(Mil. dol.)
1974							
January	1,270	1,262	1,300	6,569	6,613	2,879	2,738
February	1,195	1,276	1,289	6,835	6,617	2,651	2,702
March	1,313	1,241	1,268	6,579	6,640	2,700	2,687
April	1,382	1,355	1,254	6,567	6,733	2,750	2,739
May	1,292	1,227	1,179	6,874	6,768	2,817	2,745
June	1,346	1,165	1,204	6,973	6,831	2,710	2,782
July	801	810	1,221	6,783	6,962	2,835	2,793
August	1,348	1,425	1,224	7,212	7,112	2,814	2,837
September	1,251	1,343	1,270	7,362	7,254	2,741	2,823
October	1,455	1,377	1,338	7,467	7,393	2,869	2,864
November	1,372	1,501	1,440	7,727	7,436	2,827	2,864
December	1,439	1,569	1,444	7,809	7,550	2,874	2,924
1975							
January	1,427	1,428	1,460	7,039	7,554	2,913	2,762
February	1,351	1,444	1,429	7,896	7,526	2,808	2,862
March	1,500	1,440	1,414	7,385	7,536	2,812	2,799
April	1,220	1,194	1,354	7,297	7,342	2,867	2,836
May	1,467	1,406	1,328	7,788	7,564	2,870	2,850
June	1,409	1,215	1,360	6,649	7,747	2,823	2,869
July	1,225	1,268	1,322	8,367	7,706	2,941	2,895
August	1,559	1,634	1,361	8,996	7,818	2,873	2,923
September	1,191	1,217	1,330	7,140	7,836	2,936	2,999
October	1,500	1,425	1,365	7,971	8,079	3,008	2,999
November	1,081	1,220	1,384	7,896	7,830	2,866	2,927
December	1,319	1,427	1,328	8,103	7,352	2,916	2,925
1976							
January	1,363	1,384	1,305	6,874	7,411	3,018	2,916
February	1,227	1,293	1,382	6,126	7,380	2,820	2,792
March	1,195	1,082	1,361	7,497	7,286	2,887	2,833
April	1,792	1,884	1,330	7,784	7,068	2,845	2,933
May	1,092	1,095	1,321	7,334	7,376	2,851	2,874
June	1,418	1,244	1,281	6,795	7,589	3,007	3,019
July	1,347	1,326	pl,337	8,717	7,656	r2,963	r2,957
August	1,063	1,055	pl,420	7,409		p2,957	p2,966
September	pl,353			7,896		(NA)	(NA)
October							
November							
December							

NA=not available; p=preliminary; r=revised; e=estimated. *Indicates series shown in charts. (See page 11.)

defense indicators

TABLE

3

Intermediate and Final Indicators of Defense Activity--Continued

Year and month	688. Manufacturers' shipments, defense products, Census		689. Manufacturers' shipments to the U.S. Government, aerospace industries, Census, seasonally adjusted*	691. Ratio, manufacturers' unfilled orders to shipments, defense products, Census		693. Ratio, manufacturers' inventories to shipments, defense products, Census	
	Seasonally adjusted*	Moving average of seasonally adjusted data—5-month*		Seasonally adjusted*	Moving average of seasonally adjusted data—5-month*	Seasonally adjusted*	Moving average of seasonally adjusted data—5-month*
	(Mil. dol.)	(Mil. dol.)	(Mil. dol.)	(Ratio)	(Ratio)	(Ratio)	(Ratio)
1974							
January	1,552	1,564	...	13.8	13.6	3.7	3.7
February	1,610	1,573	3,696	13.6	13.6	3.6	3.7
March	1,612	1,591	...	13.4	13.7	3.7	3.7
April	1,586	1,600	...	13.6	13.7	3.8	3.8
May	1,594	1,564	3,780	13.9	14.1	3.8	3.9
June	1,596	1,541	...	13.9	14.6	3.9	4.0
July	1,431	1,551	...	15.5	14.8	4.4	4.1
August	1,497	1,565	3,834	16.0	14.9	4.3	4.1
September	1,638	1,553	...	14.6	15.3	3.9	4.1
October	1,663	1,584	...	14.3	15.3	3.9	4.1
November	1,536	1,613	3,888	16.0	15.1	4.2	4.0
December	1,585	1,636	...	15.5	15.0	4.1	4.0
1975							
January	1,644	1,646	...	15.0	15.1	4.0	4.0
February	1,753	1,688	4,105	14.3	14.7	3.8	4.0
March	1,714	1,704	...	14.6	14.6	4.0	4.0
April	1,742	1,709	...	14.3	14.6	4.0	4.1
May	1,668	1,671	4,104	14.9	15.0	4.3	4.3
June	1,666	1,675	...	15.1	15.1	4.4	4.4
July	1,567	1,660	...	16.2	15.3	4.8	4.5
August	1,732	1,699	4,847	14.8	15.1	4.4	4.5
September	1,665	1,713	...	15.6	15.0	4.6	4.5
October	1,866	1,732	...	13.7	14.8	4.1	4.5
November	1,736	1,756	4,283	14.7	14.6	4.5	4.4
December	1,661	1,803	...	15.3	14.1	4.7	4.3
1976							
January	1,852	1,807	...	13.5	14.0	4.1	4.3
February	1,899	1,832	r4,555	13.1	13.9	4.1	4.3
March	1,885	1,884	...	13.6	13.5	4.3	4.2
April	1,862	1,860	...	13.9	13.9	4.4	4.4
May	1,923	1,823	p5,042	13.4	14.3	4.3	4.6
June	1,730	r1,809	...	15.4	r14.4	4.9	4.7
July	1,714	p1,802	...	15.1	p14.4	5.0	(NA)
August	r1,815	...	(NA)	r14.3	p13.8	4.7	(NA)
September	p1,830	...	...	...	...	...	...
October .....	...	...	...	...	...	...	...
November .....	...	...	...	...	...	...	...
December .....	...	...	...	...	...	...	...

NA=not available; p=preliminary; r=revised; e=estimated.

*Indicates series shown in charts. (See page 12.)

Defense-Related Balance of Payments Components

Year and month	546. Transfers under U.S. military agency sales contracts (exports), BEA ¹		547. Direct defense expenditures (imports), BEA, not seasonally adjusted*	696. U.S. Government cash receipts associated with military sales contracts, BEA ²	
	Not seasonally adjusted	Seasonally adjusted*		Not seasonally adjusted	Seasonally adjusted*
	(Mil. dol.)	(Mil. dol.)	(Mil. dol.)	(Mil. dol.)	(Mil. dol.)
1974					
January .....	...	...	...	...	...
February	644	638	1,153	497	538
March .....	...	...	...	...	...
April .....	...	...	...	...	...
May	738	683	1,298	642	674
June .....	...	...	...	...	...
July .....	...	...	...	...	...
August	720	781	1,265	995	989
September .....	...	...	...	...	...
October .....	...	...	...	...	...
November	850	850	1,319	808	741
December .....	...	...	...	...	...
1975					
January .....	...	...	...	...	...
February	931	915	1,317	1,050	1,094
March .....	...	...	...	...	...
April .....	...	...	...	...	...
May	865	807	1,185	1,013	1,047
June .....	...	...	...	...	...
July .....	...	...	...	...	...
August	906	978	1,093	1,148	1,135
September .....	...	...	...	...	...
October .....	...	...	...	...	...
November	1,195	1,197	1,185	1,380	1,315
December .....	...	...	...	...	...
1976					
January .....	...	...	...	...	...
February	1,162	1,145	1,150	2,250	2,294
March .....	...	...	...	...	...
April .....	...	...	...	...	...
May	pl,145	pl,074	pl,087	pl,858	pl,895
June .....	...	...	...	...	...
July .....	...	...	...	...	...
August	(NA)	(NA)	(NA)	(NA)	(NA)
September					
October					
November					
December					

NA=not available; p=preliminary; r=revised; e=estimated. *Indicates series shown in charts. (See page 13.)

¹ Includes deliveries for which Israel has been released from its contractual liability to pay. ² Excludes funds made available to release Israel from its contractual liability to pay for defense articles and services purchased through military sales contracts. Quarterly expenditures for such purpose under Public Law 93-199 and subsequent legislation amounted to (in millions): 1974, IIQ, \$623; IIIQ, \$223; IVQ, \$91; 1975, IQ, \$187; IIQ, \$124; IIIQ, \$83; IVQ, \$242; 1976, IQ, \$107; IIQ, \$9.

Appendix A. SEASONAL ADJUSTMENT FACTORS

Series title	1976											
	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.	Oct.	Nov.	Dec.
MONTHLY SERIES												
Defense Department gross obligations incurred:												
617. Total ¹	106.4	90.5	93.2	95.0	77.8	133.3	118.2	108.7	94.4	103.1	92.9	90.3
619. Operations ¹	104.9	91.2	93.3	102.8	89.1	117.6	118.5	100.9	96.6	106.2	90.5	91.1
621. Procurement	128.5	103.3	89.1	68.6	64.9	166.7	79.3	93.7	98.0	111.4	100.9	95.6
623. Gross obligations incurred outside the Federal Government for national defense ¹	108.1	86.7	95.2	94.2	82.5	119.9	115.7	107.5	97.2	105.2	95.6	97.0
625. Defense Department military prime contract awards for work performed in the United States	96.5	84.5	84.9	72.5	71.9	179.3	116.0	108.3	100.1	105.5	88.5	91.7
Defense Department gross unpaid obligations outstanding: ²												
643. Total	103.2	101.0	97.9	95.5	91.9	95.6	99.0	103.0	103.1	104.7	103.3	101.6
644. Operations	105.4	99.0	92.8	93.1	87.0	89.5	101.1	106.3	105.6	112.7	105.7	101.3
645. Procurement	102.4	103.0	102.0	99.8	96.9	100.1	97.7	98.3	98.7	99.3	100.7	100.8
648. Manufacturers' new orders, defense products ³	98.7	92.1	92.2	88.8	67.6	94.9	162.3	86.9	114.6	108.2	86.1	107.7
653. Average weekly overtime hours, production workers, defense products industries ⁴	-.1	-.1	-.1	-.3	-.3	.0	-.3	.0	-.3	.1	.3	.4
654. Accession rate, defense products industries ⁴	-.1	-.3	-.2	-.2	.0	.6	.3	.4	-.4	.2	-.3	-.8
655. Layoff rate, defense products industries ⁴	-.1	-.1	-.1	-.1	-.0	-.1	-.1	-.1	-.2	-.2	-.0	.0
657. Output of defense and space equipment ³	100.3	100.3	100.4	99.1	99.6	100.6	98.3	98.5	99.3	99.9	101.0	102.3
659. Manufacturers' inventories, defense products ³	99.7	99.7	100.1	100.6	100.1	99.7	100.1	99.2	99.8	100.6	100.6	99.4
661. Manufacturers' unfilled orders, defense products ³	101.0	100.5	100.0	99.3	97.2	96.5	101.1	100.1	101.0	101.5	100.4	100.4
Employment in defense products industries:												
670. Total	100.3	99.9	99.5	99.4	99.2	99.6	99.3	99.3	100.3	100.6	101.1	101.2
671. Production workers	100.6	100.0	99.5	99.3	98.8	99.3	99.0	98.5	100.3	100.8	101.7	102.0
673. Index of aggregate weekly hours, defense products industries	100.0	100.0	99.6	98.9	99.4	99.7	98.4	98.9	100.6	100.6	101.7	102.0
675. Index of aggregate weekly payrolls, production workers, defense products industries	100.2	100.3	99.7	98.0	99.0	98.9	96.3	97.2	100.8	101.2	103.0	105.1
Defense Department net outlays:												
680. Total, military functions and military assistance ¹	100.2	99.3	104.2	102.2	97.8	120.2	85.8	95.6	96.4	98.4	100.1	104.6
681. Operations ¹	99.9	100.5	101.2	102.0	97.1	110.3	96.0	99.2	97.8	98.7	99.4	101.8
682. Procurement ¹	98.5	94.9	110.4	95.1	99.7	114.0	101.6	100.8	95.3	102.6	92.9	98.0
683. Budget outlays for the national defense function ¹	100.6	99.9	103.4	102.7	97.3	119.7	85.6	98.1	97.0	98.2	101.0	98.5
685. Defense Department personnel compensation ¹	103.5	101.0	101.9	100.4	99.2	99.6	100.2	99.7	98.9	99.1	99.7	99.7
688. Manufacturers' shipments, defense products ³	88.3	96.6	99.4	99.4	99.4	105.4	98.4	99.2	103.5	98.8	102.6	107.8
QUARTERLY SERIES												
	I Q			II Q			III Q			IV Q		
200. Gross national product ³	95.9			100.5			98.5			104.7		
264. Fed. Govt. purchases of goods and services, national defense ³	101.5			101.7			95.0			102.0		
546. Transfers under U.S. military agency sales contracts—exports ²	16			58			-72			-2		
Defense Department military prime contract awards:												
626. Aircraft	98.6			102.7			105.8			92.6		
627. Missile and space systems	83.9			73.5			138.3			104.5		
629. Weapons and ammunition	95.3			150.6			41.5			112.3		
630. Electronic and communications equipment	93.6			124.9			86.6			95.2		
631. Combat vehicles	56.8			146.2			113.0			83.0		
632. Other hard goods	90.8			149.2			74.9			84.9		
633. Soft goods	82.8			74.9			150.3			91.9		
634. Construction	76.6			196.8			63.2			63.0		
635. Services	65.7			104.9			124.5			104.6		
636. Under \$10,000	99.3			123.2			83.6			93.8		
637. Educational and nonprofit institutions	80.2			75.3			142.6			103.9		
640. Outside U.S.	76.4			89.6			162.2			71.3		
Aerospace industries:												
650. Manufacturers' new orders from the U.S. Government	88.5			87.0			123.4			100.8		
664. Manufacturers' unfilled orders from the U.S. Government	100.2			96.7			101.2			101.8		
689. Manufacturers' shipments to the U.S. Government	94.8			100.9			100.6			103.8		
696. U.S. Govt. cash receipts associated with military sales contracts ²	-44			-34			13			65		

NOTE: The seasonal adjustment factors presented in this table were computed using the techniques described in the Bureau of the Census Technical Paper No. 15, *The X-11 Variant of the Census Method II Seasonal Adjustment Program*.

Monthly data for Defense Department military prime contract awards by commodity category (series 626 to 640) have not been adjusted for seasonal variation. The series on direct defense expenditures-imports (series 547), Defense Department progress payments outstanding (series 666), and Defense Department personnel (series 677 and 678) contain no measurable seasonal variation.

¹ Factors are products of seasonal and trading-day factors.

² Prior to 1972, data for gross unpaid obligations outstanding are not available for a number

of months but these gaps were filled with averages of preceding and following months for purposes of estimating seasonal variation.

³ These series have been adjusted by the source agencies. The factors shown here are implicit seasonal factors for the calendar year 1975 and are derived by dividing the seasonally unadjusted data by the seasonally adjusted data.

⁴ These series have been seasonally adjusted using the additive version of the seasonal adjustment program. Seasonally adjusted data are derived by subtracting the adjustment factor from the unadjusted data. Seasonally adjusted data for other series are derived by dividing the seasonal factors into the unadjusted data.

⁵ This series is the total of component series which have been adjusted separately by the source agency. The factors shown here are implicit seasonal factors for the calendar year 1975 and are derived by subtracting the seasonally adjusted data from the seasonally unadjusted data.

Appendix B. AVERAGE CHANGES AND RELATED MEASURES OF VARIABILITY

Part 1. Monthly Series

Series title	Period covered	\bar{O}	\bar{C}_I	\bar{T}	\bar{C}	\bar{I}/\bar{C}	MCD	Average duration of run (ADR)	
								CI	MCD
Defense Department gross obligations incurred:									
617. Total	Jan. '57-Jan. '76	18.28	6.98	6.89	0.72	9.53	6	1.53	2.30
619. Operations	July '59-Jan. '76	8.98	2.77	2.66	.65	4.09	4	1.69	3.00
621. Procurement	Jan. '57-Jan. '76	44.28	22.39	22.27	1.54	14.44	6	1.46	2.08
623. Gross obligations incurred outside the Federal Government for national defense	July '63-Sept. '75	14.17	7.92	7.82	.73	10.72	6	1.52	2.61
625. Defense Department military prime contract awards for work performed in the United States, total	Jan. '57-Jan. '76	32.78	15.55	15.41	1.35	11.42	6	1.42	2.05
Defense Department gross unpaid obligations outstanding:									
643. Total	Jan. '57-Jan. '76	2.13	1.32	.95	.88	1.08	2	2.65	3.98
644. Operations	Jan. '67-Jan. '76	5.59	2.68	2.37	1.13	2.10	3	1.96	5.05
645. Procurement	Jan. '67-Jan. '76	2.19	1.52	1.07	.94	1.14	2	2.08	4.12
Manufacturers' new orders:									
647. Defense products industries	Jan. '57-Mar. '72	(NA)	15.11	14.89	.97	15.32	6	1.58	2.33
648. Defense products	Feb. '68-Jan. '76	(NA)	21.50	21.43	1.47	14.59	6	1.56	1.80
*653. Average weekly overtime hours, production workers, defense products industries (hours)	Jan. '58-Jan. '76 . . . . .	.22	.11	.11	.03	3.14	4	2.50	3.70
*654. Accession rate, defense products industries (per 100 employees)	Jan. '58-Jan. '76 . . . . .	.38	.16	.15	.05	3.12	4	2.16	4.18
*655. Layoff rate, defense products industries (per 100 employees)	Jan. '58-Jan. '76 . . . . .	.17	.14	.13	.04	3.14	4	1.93	4.18
657. Output of defense and space equipment	Jan. '57-Jan. '76	(NA)	.96	.50	.75	.67	1	3.40	3.40
Manufacturers' inventories:									
658. Defense products industries	Jan. '57-Mar. '72	(NA)	1.04	.52	.85	.62	1	2.80	2.80
659. Defense products	Jan. '68-Jan. '76	(NA)	1.75	1.13	1.29	.88	1	3.10	3.10
Manufacturers' unfilled orders:									
660. Defense products industries	Jan. '57-Mar. '72	(NA)	1.23	.90	.83	1.09	2	2.76	3.42
661. Defense products	Jan. '68-Jan. '76	(NA)	1.51	1.18	.93	1.27	2	2.04	4.13
Employment in defense products industries:									
670. Total	Jan. '58-Jan. '76 . . . . .	.76	.70	.29	.59	.50	1	4.91	4.91
671. Production workers	Jan. '58-Jan. '76	1.08	.93	.51	.70	.73	1	3.72	3.72
673. Index of aggregate weekly hours, defense products industries	Jan. '58-Jan. '76 . . . . .	.95	.76	.39	.60	.65	1	4.00	4.00
675. Index of aggregate weekly payrolls, production workers, defense products industries	Jan. '58-Jan. '76	1.72	1.14	.75	.78	.96	1	2.92	2.92
Defense Department personnel:									
677. Military, active duty @	Jan. '57-Jan. '76 . . . . .	.62	(NA)	.27	.55	.48	1	3.86	3.86
678. Civilian, direct hire employment @	Jan. '57-Jan. '76 . . . . .	.55	(NA)	.34	.42	.81	1	4.30	4.30
Defense Department net outlays:									
680. Total, military functions and military assistance	Jan. '57-Jan. '76	8.89	4.31	4.19	.77	5.42	6	1.70	3.10
681. Operations	July '59-Jan. '76	7.07	3.62	3.41	.73	4.69	5	1.58	2.34
682. Procurement	Jan. '57-Jan. '76	15.10	11.77	11.65	1.59	7.32	6	1.57	2.90
683. Budget outlays for the national defense function	Jan. '57-Jan. '76	8.87	4.27	4.18	.73	5.73	6	1.58	2.97
685. Defense Department personnel compensation	Jan. '67-Jan. '76	2.70	1.33	1.13	.49	2.32	4	2.57	4.38
Manufacturers' shipments:									
687. Defense products industries	Jan. '57-Mar. '72	(NA)	2.67	2.49	.87	2.85	3	1.64	3.40
688. Defense products	Jan. '68-Jan. '76	(NA)	4.40	4.34	.98	4.41	5	1.57	2.71
Ratio, manufacturers' unfilled orders to shipments:									
690. Defense products industries	Jan. '57-Mar. '72	(NA)	2.95	2.71	.96	2.82	4	1.90	3.81
691. Defense products	Jan. '68-Jan. '76	(NA)	4.93	4.81	1.01	4.77	5	1.69	2.85
Ratio, manufacturers' inventories to shipments:									
692. Defense products industries	Jan. '57-Mar. '72	(NA)	2.84	2.90	.72	4.01	5	2.46	5.74
693. Defense products	Jan. '68-Jan. '76	(NA)	5.29	5.18	1.13	4.57	5	1.96	3.07

NA = not available.

*Measures for these series are based on actual changes rather than percent changes (see definition below). @ indicates measures are based on unadjusted data.

BRIEF DEFINITIONS OF MEASURES SHOWN IN PART 1

The measures in this appendix provide a historical perspective for interpreting current changes in each series. They are derived using the Census X-11 seasonal adjustment program. Brief definitions of the measures are given below; more complete definitions appear in *Electronic Computers and Business Indicators* by Julius Shiskin, issued as Occasional Paper 57 by the National Bureau of Economic Research, 1957 (reprinted from *Journal of Business*, October 1957).

" \bar{O} " is the average month-to-month percent change, without regard to sign, in the original unadjusted series. (See final paragraph below for exceptions to these definitions.)

" \bar{C}_I " is the same for the seasonally adjusted series.

" \bar{C} " is the same for the short-term trend, which is a smooth, flexible moving average of the seasonally adjusted series.

" \bar{T} " is the same for the irregular component, which is obtained by dividing the seasonally adjusted series by the short-term trend.

" \bar{I}/\bar{C} " measures the relative smoothness (small values) or irregularity (large values) of the seasonally adjusted series. It is the ratio of the average monthly percent change (without regard to sign) in the irregular component to the average monthly percent change (without regard to sign) in the short-term trend.

"MCD" (months for cyclical dominance) estimates the number of months required for the short-term trend to dominate the irregular component. Average percent changes are computed for spans of from 1 to 12 months for both the irregular component and the short-term trend. MCD is the shortest span of months for which the average percent change (without regard to sign) in the short-term trend is greater than that in the irregular component. All MCD's greater than "5" are shown as "6".

Appendix B. AVERAGE CHANGES AND RELATED MEASURES OF VARIABILITY—Continued

"Average Duration of Run" (ADR) is another measure of smoothness and is equal to the average number of consecutive monthly changes in the same direction in any series of observations. When there is no change between two observations, a change in the same direction as the preceding change is assumed. The ADR is shown for the seasonally adjusted series (CI) and the MCD curve, which is a moving average (with the number of terms equal to MCD) of the seasonally adjusted series. A comparison of these measures with the expected ADR of a random series indicates whether the changes approximate those of a random series. In a random series, the expected ADR is 1.5 and the actual values fall between 1.36 and 1.75 about 95 percent of the time. For a moving average of a random series, the expected ADR is 2.

Measures for series identified with an asterisk (*) are computed by an additive method. This method is used for series with zero or negative data, series which could approach zero, and series expressed in percent. In this method, the measures are defined the same as above except for two differences: (1) the measures are based on actual month-to-month changes (rather than percent changes) and (2) the irregular component is obtained by subtracting the short-term trend from the seasonally adjusted series. The average changes shown above for the components of such a series are in the same unit of measure as the series itself. The unit is indicated in the series title.

Part 2. Quarterly Series

Series title	Period covered	\bar{O}	\bar{CI}	\bar{T}	\bar{C}	\bar{T}/\bar{C}	QCD	Average duration of run (ADR)	
								CI	OCD
200. Gross national product	IQ '57-IVQ '75	(NA)	1.84	0.35	1.76	0.20	1	8.33	8.33
264. Federal Government purchases of goods and services, national defense	IQ '57-IVQ '75	(NA)	1.95	.79	1.70	.46	1	3.26	3.26
*546. Transfers under U.S. military agency sales contracts—exports (mil. dol.)	IQ '60-IVQ '75	79.21	65.13	48.28	34.19	1.41	2	1.70	2.30
*547. Direct defense expenditures—imports (mil. dol.) (1)	IQ '60-IVQ '75	42.32	(NA)	36.13	24.65	1.47	2	1.66	2.82
*613. National defense purchases as a percent of GNP (percent)	IQ '57-IVQ '75	(NA)	.16	.07	.15	.46	1	5.36	5.36
650. Manufacturers' new orders from the U.S. Government, aerospace industries	IQ '61-IVQ '75	24.44	17.96	14.82	5.85	2.53	3	1.44	1.73
664. Manufacturers' unfilled orders from the U.S. Government, aerospace industries	IQ '61-IVQ '75	4.55	3.91	2.44	2.68	.91	1	2.27	2.27
666. Defense Department progress payments outstanding (1)	IQ '57-IVQ '75	4.80	(NA)	2.06	4.35	.47	1	2.78	2.78
689. Manufacturers' shipments to the U.S. Government, aerospace industries	IQ '61-IVQ '75	7.04	4.27	3.43	2.11	1.62	2	1.84	2.76
*696. U.S. Government cash receipts associated with military sales contracts (million dollars)	IQ '60-IVQ '75	107.60	83.62	61.48	45.74	1.34	2	1.57	2.82

NA = not available.

*Measures for these series are based on actual changes rather than percent changes (see definition below). (1) indicates measures are based on unadjusted data.

BRIEF DEFINITIONS OF MEASURES SHOWN IN PART 2

These measures are defined the same as those in part 1 except that they are based on quarter-to-quarter percent changes. For example, \bar{CI} is the average quarter-to-quarter percent change (without regard to sign) in the seasonally adjusted series.

In deriving "QCD" (quarters for cyclical dominance), average percent changes are computed for spans of from one to four quarters for the irregular component and the short-term trend. QCD is the shortest span of quarters for

which the average percent change (without regard to sign) in the short-term trend is greater than that in the irregular component. All QCD's greater than "3" are shown as "4". The "Average Duration of Run" (ADR) measures are also expressed in quarters.

As in part 1, measures for series identified with an asterisk (*) are computed by an additive method. This method is the same as that used for the monthly series except for the use of quarterly data rather than monthly.

Appendix C. HISTORICAL DATA

This appendix provides historical data (back to 1945 if available) for selected Defense Indicators series. Data are shown for series which (a) have recently been added to the report, (b) have recently been revised, or (c) have not been shown here for a long time. By keeping these tables, the user can acquire a complete set of historical data. Each time a series is included in this appendix, it is footnoted to indicate the extent of any revisions since it was last shown. See the "Alphabetical Index—Series Finding Guide" for the latest issue in which historical data

were published for each series. Current figures are shown in the basic data tables each month and may be used to update these historical tables.

Official source agency annual figures are shown if available. Such figures may differ slightly from those computed from the monthly or quarterly data appearing in the tables. When both seasonally adjusted and unadjusted data are shown for a series, annual figures are included only for the unadjusted data. Quarterly and annual data are not included for moving averages.

Year	Monthly												Quarterly				Annual
	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.	Oct.	Nov.	Dec.	I Q	II Q	III Q	IV Q	
625. DEFENSE DEPARTMENT MILITARY PRIME CONTRACT AWARDS FOR WORK PERFORMED IN THE U.S., TOTAL, NOT SEASONALLY ADJUSTED (MILLIONS OF DOLLARS)																	TOTAL FOR PERIOD
1951...	4,006	2,508	2,974	2,878	3,750	7,917	2,946	2,170	1,834	2,295	2,074	3,413	9,486	14,525	6,960	7,782	38,753
1952...	2,505	3,961	3,603	2,067	5,022	12,428	526	1,884	1,729	2,000	5,202	9,486	17,271	5,056	6,951	22,054	36,707
1953...	3,557	1,675	2,521	2,418	1,985	5,889	1,441	585	810	771	184	408	7,753	10,102	2,836	1,345	22,054
1954...	581	416	909	1,039	1,286	5,038	622	425	2,012	1,817	302	967	1,906	3,563	3,059	3,086	15,181
1955...	962	969	1,191	1,414	807	3,442	726	805	608	934	1,074	3,015	3,122	5,663	2,139	5,023	15,847
1956...	1,232	1,159	1,803	1,025	1,397	4,406	896	1,372	2,137	1,643	1,582	2,593	4,194	6,828	4,405	5,818	22,245
1957...	1,452	1,594	1,871	1,699	637	2,380	1,222	853	1,337	1,361	1,470	2,243	4,917	4,716	3,412	5,074	18,119
1958...	1,714	1,019	2,683	1,628	2,404	4,819	1,150	1,120	2,356	1,679	1,372	2,996	5,416	8,851	4,626	6,047	24,940
1959...	1,528	1,556	2,363	1,728	1,501	4,753	1,644	1,349	1,734	1,827	1,677	1,583	7,982	8,827	5,087	23,143	
1960...	1,528	1,447	2,279	1,395	1,788	4,116	1,592	1,626	2,297	1,310	1,554	2,185	5,250	7,299	5,515	5,047	23,111
1961...	1,697	1,812	2,337	1,867	1,519	4,511	1,483	1,706	2,116	2,524	1,851	2,611	5,846	7,897	5,305	6,986	26,034
1962...	2,894	1,831	2,927	1,935	1,800	4,118	1,448	1,846	2,138	2,870	2,386	1,997	7,656	7,853	5,432	7,253	28,194
1963...	2,255	2,185	2,736	1,768	2,085	4,422	1,788	2,395	2,825	2,142	1,471	2,016	7,156	8,267	7,008	5,627	28,058
1964...	2,220	2,473	2,990	2,216	2,305	3,534	2,198	1,773	2,356	1,941	1,679	1,835	6,783	8,053	6,327	5,455	26,618
1965...	1,975	1,556	2,473	2,556	1,907	4,402	2,089	2,517	2,675	2,684	2,402	2,722	5,984	8,865	7,281	7,808	29,938
1966...	2,766	2,377	2,435	3,018	2,743	8,611	3,755	2,876	3,927	3,221	2,596	3,207	9,978	12,646	10,536	9,024	40,184
1967...	3,135	5,179	2,876	2,476	5,715	8,000	3,407	5,345	4,088	3,456	2,653	3,183	9,190	15,068	10,838	9,292	42,388
1968...	2,685	2,770	2,943	3,090	5,715	8,000	3,407	5,345	4,088	3,456	2,653	3,183	9,190	15,068	10,838	9,292	42,388
1969...	3,021	2,963	2,663	2,880	2,582	4,462	3,112	2,822	4,460	3,852	2,682	3,523	8,988	12,714	11,083	10,057	42,252
1970...	2,527	2,269	2,457	2,070	2,180	5,054	2,428	2,601	2,497	3,211	2,710	8,474	9,724	8,960	8,092	35,223	
1971...	2,215	2,271	2,871	2,187	1,778	4,100	3,208	3,016	5,134	2,715	2,532	3,152	7,357	8,065	9,258	8,299	33,770
1972...	3,210	2,499	2,871	2,167	2,204	5,574	3,415	2,583	2,815	3,008	2,997	2,611	8,580	9,945	8,823	8,616	35,964
1973...	2,578	2,418	2,842	1,854	2,489	5,122	2,357	3,224	3,309	3,198	2,967	2,948	7,837	9,465	8,890	9,109	35,301
1974...	3,084	2,613	2,602	3,127	2,250	6,086	3,924	4,091	3,586	4,165	3,207	2,616	8,299	11,463	11,601	9,988	41,351
1975...	3,567	3,321	2,625	2,914	6,626	4,376	5,295	5,179	3,178	2,608	2,870	9,513	12,253	12,850	8,652	43,268	
625. DEFENSE DEPARTMENT MILITARY PRIME CONTRACT AWARDS FOR WORK PERFORMED IN THE U.S., TOTAL, SEASONALLY ADJUSTED (MILLIONS OF DOLLARS)																	TOTAL FOR PERIOD
1951...	3,976	3,495	3,001	2,892	3,760	2,759	4,097	4,241	2,333	2,823	3,462	3,399	10,470	9,411	10,671	9,684	
1952...	2,528	5,479	2,959	2,088	3,059	4,292	1,158	1,002	2,116	2,143	3,295	3,148	10,966	9,459	4,276	8,586	
1953...	3,682	2,295	2,381	2,462	2,038	2,042	2,055	1,089	1,004	959	265	390	8,356	6,542	4,128	1,614	
1954...	618	584	828	1,068	1,526	1,108	884	767	2,454	2,271	481	913	2,006	3,510	4,107	3,665	
1955...	1,049	1,306	1,028	1,468	881	1,287	971	1,231	507	1,136	1,310	2,194	3,383	3,586	2,780	6,640	
1956...	1,474	1,388	1,502	1,404	1,782	2,024	1,196	2,108	2,081	1,972	1,834	1,801	4,366	5,210	5,385	5,737	
1957...	1,756	1,927	1,563	2,312	808	1,093	1,619	1,510	1,297	1,598	1,819	1,673	5,246	4,223	5,084		
1958...	2,103	1,732	2,243	2,142	3,043	2,228	1,511	1,692	2,308	1,880	1,706	2,328	5,578	7,413	5,511	5,912	
1959...	1,625	1,898	1,966	2,204	1,893	2,222	2,192	1,966	1,793	1,937	2,102	1,288	5,489	6,319	5,949	5,337	
1960...	1,850	1,754	1,904	1,726	2,252	1,963	2,151	2,200	2,250	1,327	1,958	1,922	5,508	5,941	6,601	5,187	
1961...	1,989	2,186	1,987	2,274	1,855	2,229	1,993	2,143	2,053	2,494	2,308	2,481	6,162	6,358	6,169	7,283	
1962...	3,271	2,180	2,552	2,295	2,140	2,127	1,888	2,167	2,052	2,814	2,946	2,044	8,003	6,562	6,087	7,804	
1963...	2,429	2,611	2,463	2,023	2,413	2,366	2,216	2,722	2,635	2,119	1,814	2,149	7,503	6,802	7,573	6,082	
1964...	2,372	2,958	1,966	2,502	2,680	1,910	2,580	1,963	2,163	1,967	2,075	1,997	7,298	7,052	6,706	6,059	
1965...	2,097	1,846	2,451	2,843	2,150	2,390	2,313	2,775	2,419	2,780	2,995	2,988	6,394	7,383	7,507	8,773	
1966...	2,952	2,906	2,956	3,461	2,978	3,693	3,940	3,165	3,541	3,383	3,225	3,513	8,814	10,132	10,646	10,122	
1967...	3,364	3,930	3,054	3,026	4,040	3,566	3,545	5,690	3,720	5,826	3,308	3,479	10,328	10,632	10,955	10,413	
1968...	2,887	3,445	3,124	3,468	4,203	3,067	3,937	3,175	3,836	3,903	3,378	3,613	9,456	10,758	10,986		
1969...	3,346	3,124	2,904	2,825	3,070	2,744	2,898	5,001	2,880	2,987	2,754	2,765	9,783	8,639	8,577	8,486	
1970...	2,655	2,623	2,904	2,519	2,545	2,896	2,717	2,785	2,613	3,484	2,766	3,181	8,382	8,032	7,612	9,391	
1971...	2,608	2,704	2,104	2,228	2,724	2,916	2,916	2,916	2,916	2,916	2,916	2,916	8,316	7,483	8,991	8,766	
1972...	3,520	2,982	3,025	2,985	2,768	3,156	3,078	2,638	2,725	2,946	3,889	2,532	9,527	8,925	8,457	9,067	
1973...	2,824	2,899	2,947	2,568	3,171	2,887	2,106	3,276	3,222	3,176	3,515	2,850	8,670	8,636	8,604	9,541	
1974...	3,378	3,141	2,677	4,343	2,881	3,440	3,494	4,153	3,502	4,161	3,777	2,532	9,186	10,864	11,149	10,470	
1975...	3,693	3,987	2,817	4,122	3,926	3,773	3,842	5,072	3,080	2,961	2,872	3,130	10,497	11,821	11,994	8,963	

NOTE: These series contain no revisions but are reprinted for the convenience of the user. Data prior to July 1955 exclude orders written to other Government agencies.

(OCTOBER 1976)

Appendix C. HISTORICAL DATA—Continued

Year	Monthly												Quarterly				Annual
	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.	Oct.	Nov.	Dec.	I Q	II Q	III Q	IV Q	
625. DEFENSE DEPARTMENT MILITARY PRIME CONTRACT AWARDS FOR WORK PERFORMED IN THE U.S., TOTAL, 6-MONTH MOVING AVERAGE OF SEASONALLY ADJUSTED DATA¹ (MILLIONS OF DOLLARS)																	
1951...	...	...	...	3,514	3,334	3,458	3,347	3,336	3,286	3,393	3,131	3,337				
1952...	3,442	3,319	3,252	3,401	3,173	2,426	2,286	2,295	2,334	2,144	2,564	2,780					
1953...	2,824	2,877	2,668	2,483	2,209	2,008	1,778	1,528	1,232	957	721	633					
1954...	603	622	798	919	964	998	1,270	1,470	1,329	1,295	1,323	1,412					
1955...	1,175	1,041	1,101	1,163	1,150	1,138	1,066	1,010	1,089	1,240	1,324	1,350					
1956...	1,501	1,545	1,624	1,596	1,549	1,689	1,768	1,862	1,888	1,865	1,959	1,929					
1957...	1,841	1,897	1,710	1,577	1,554	1,651	1,407	1,287	1,455	1,552	1,632	1,619					
1958...	1,777	1,868	2,072	2,165	2,067	2,143	2,154	2,110	1,887	1,904	1,923	1,957					
1959...	1,900	1,956	1,986	1,968	2,063	2,074	2,045	2,000	2,035	1,881	1,824	1,789					
1960...	1,808	1,772	1,797	1,908	1,958	2,033	2,090	2,024	1,972	1,965	1,938	1,935					
1961...	1,892	2,049	2,036	2,087	2,087	2,080	2,088	2,125	2,200	2,244	2,457	2,463					
1962...	2,549	2,516	2,488	2,428	2,197	2,195	2,108	2,195	2,329	2,315	2,405	2,479					
1963...	2,551	2,419	2,531	2,584	2,549	2,387	2,396	2,412	2,512	2,276	2,302	2,341					
1964...	2,230	2,294	2,431	2,391	2,426	2,260	2,293	2,204	2,110	2,124	2,044	2,024					
1965...	2,072	2,218	2,321	2,396	2,332	2,387	2,463	2,473	2,614	2,713	2,820	2,842					
1966...	2,831	3,043	3,040	2,158	2,322	3,266	3,623	3,450	3,601	3,365	3,493	3,493					
1967...	3,408	3,349	3,484	3,493	3,524	3,486	3,598	3,608	3,776	3,561	3,572	3,111					
1968...	3,312	3,288	3,438	3,569	3,544	3,499	3,517	3,686	3,549	3,640	3,550	3,595					
1969...	3,440	3,260	3,208	3,064	2,980	2,907	2,869	2,896	2,840	2,844	2,837	2,774					
1970...	2,812	2,746	2,714	2,736	2,713	2,739	2,607	2,753	2,786	2,834	2,799	2,786					
1971...	2,951	2,852	2,776	2,653	2,701	2,766	2,746	2,692	2,836	2,059	3,060	3,041					
1972...	3,048	5,112	3,061	3,075	3,001	2,944	2,898	2,887	3,021	2,917	2,876	2,919					
1973...	2,956	2,893	2,824	2,884	2,765	2,828	2,875	2,975	3,032	3,028	3,236	3,214					
1974...	3,123	3,317	3,212	3,310	3,329	3,698	3,636	3,605	3,758	3,603	3,636	3,609					
1975...	3,494	3,488	3,513	3,720	3,764	3,925	3,969	3,776	3,600	3,493	3,420	3,074					
1976...																	
626. DEFENSE DEPARTMENT MILITARY PRIME CONTRACT AWARDS, AIRCRAFT, NOT SEASONALLY ADJUSTED² (MILLIONS OF DOLLARS)																	
													TOTAL FOR PERIOD				
1957...	...	...	...	...	...	...	...	...	...	...	...	...	1,885	2,541	878	2,114
1958...	...	...	...	...	...	...	...	...	...	...	...	...	1,656	2,078	1,059	1,766
1959...	...	...	...	...	...	...	...	...	...	...	...	...	1,432	1,603	979	5,795
1960...	...	...	...	...	...	...	...	...	...	...	...	...	915	1,130	1,140	1,051
1961...	...	...	...	...	...	...	...	...	...	...	...	...	1,657	1,267	918	5,516
1962...	...	...	...	...	...	...	...	...	...	...	...	...	1,200	1,687	1,714	1,136
1963...	...	...	...	...	...	...	...	...	...	...	...	...	1,754	1,463	1,210	5,519
1964...																	
1965...	792	617	535	655	458	1,872	842	873	981	919	618	724	1,133	2,346	1,404	1,512	
1966...	784	788	529	452	1,240	1,377	393	635	1,484	1,249	578	805	2,101	3,049	2,512	2,632	
1967...	642	529	574	510	1,129	1,006	426	577	1,156	598	534	898	1,545	2,969	2,159	2,026	
1968...	891	741	545	444	386	1,175	356	629	689	569	511	526	2,177	2,005	1,674	7,462	
1969...	553	328	701	581	1,032	829	602	473	991	352	533	1,630	2,087	1,904	1,876	7,497	
1970...	634	469	726	471	367	1,586	955	529	523	395	427	612	1,829	2,424	2,007	1,434	
1971...	728	328	721	122	866	1,243	396	611	867	939	686	868	1,777	2,251	1,874	7,823	
1972...	1,095	598	517	459	508	502	1,089	591	868	1,156	856	569	2,208	1,269	2,546	2,581	
1973...	1,062	509	421	316	386	732	810	1,254	469	817	373	483	1,992	1,434	2,533	1,673	
1974...																	
627. DEFENSE DEPARTMENT MILITARY PRIME CONTRACT AWARDS, MISSILE AND SPACE SYSTEMS, NOT SEASONALLY ADJUSTED³ (MILLIONS OF DOLLARS)																	
													TOTAL FOR PERIOD				
1957...	...	...	...	...	...	...	...	...	...	...	...	...	829	1,197	640	1,240
1958...	...	...	...	...	...	...	...	...	...	...	...	...	1,095	1,506	695	4,776
1959...	...	...	...	...	...	...	...	...	...	...	...	...	1,261	1,550	1,387	5,517
1960...	...	...	...	...	...	...	...	...	...	...	...	...	1,511	1,667	1,399	5,586
1961...	...	...	...	...	...	...	...	...	...	...	...	...	1,963	1,741	1,461	5,513
1962...	...	...	...	...	...	...	...	...	...	...	...	...	2,000	1,714	1,671	4,421
1963...	...	...	...	...	...	...	...	...	...	...	...	...	1,116	1,371	1,388	4,577
1964...																	
1965...	405	269	325	360	175	484	358	505	581	345	258	242	1,243	900	1,167	1,058	
1966...	361	352	449	295	256	589	495	516	514	322	412	311	997	1,557	843	4,041	
1967...	345	419	377	449	294	997	270	479	479	308	462	1,140	1,525	1,045	4,872		
1968...	232	312	263	256	258	537	460	460	460	484	215	473	865	1,139	5,542		
1969...	488	275	236	259	206	372	357	624	567	341	222	722	909	1,277	1,248	5,079	
1970...	383	223	269	230	199	349	506	433	666	530	279	425	875	778	1,605	1,281	
1971...	359	410	473	257	209	481	681	326	481	516	491	359	1,242	987	1,488	5,043	
1972...	377	297	504	233	129	349	207	921	435	368	285	563	1,178	711	1,563	1,214	
1973...	206	305	255	303	297	323	618	430	548	410	766	766	923	1,896	1,205	4,790	
1974...	346	276	244	377	242	537	661	1,070	379	463	498	426	866	1,156	2,110	1,387	
1975...																	
1976...																	
628. DEFENSE DEPARTMENT MILITARY PRIME CONTRACT AWARDS, SHIPS, NOT SEASONALLY ADJUSTED⁴ (MILLIONS OF DOLLARS)																	
													TOTAL FOR PERIOD				
1957...	...	...	...	...	...	...	...	...	...	...	...	...	186	217	113	350
1958...	...	...	...	...	...	...	...	...	...	...	...	...	300	290	276	352
1959...	...	...	...	...	...	...	...	...	...	...	...	...	353	385	463	333
1960...	...	...	...	...	...	...	...	...	...	...	...	...	406	273	547	1,528
1961...	...	...	...	...	...	...	...	...	...	...	...	...	440	394	422	1,482
1962...	...	...	...	...	...	...	...	...	...	...	...	...	206	651	407	360
1963...																	
1964...																	
1965...	75	71	210	152	95	244	156	210	505	81	48	130	356	491	491	1,422	
1966...	90	418	171	122	129	205	178	104	134	153	146	110	679	406	416	1,855	
1967...	108	77	236	79	224	499	199	213	174	115	109	98	421	802	586	322	
1968...	93	116	103	65	172	123	51	135	380	151	51	325	312	566	507	1,748	
1969...	59	95	67	59	57	341	95	149	76	711	172	52	221	320	935	1,933	
1970...	88	435	498														

Appendix C. HISTORICAL DATA—Continued

Year	Monthly												Quarterly				Annual
	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.	Oct.	Nov.	Dec.	I Q	II Q	III Q	IV Q	
629. DEFENSE DEPARTMENT MILITARY PRIME CONTRACT AWARDS, WEAPONS AND AMMUNITION, NOT SEASONALLY ADJUSTED (MILLIONS OF DOLLARS)																	TOTAL FOR PERIOD
1957...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	97
1958...	...	...	...	...	...	...	...	...	...	...	...	...	130	232	58	89	509
1959...	...	...	...	...	...	...	...	...	...	...	...	...	109	317	62	95	583
1960...	...	...	...	...	...	...	...	...	...	...	...	...	146	294	133	123	696
1961...	...	...	...	...	...	...	...	...	...	...	...	...	177	262	188	374	1,001
1962...	...	...	...	...	...	...	...	...	...	...	...	...	280	299	145	301	1,025
1963...	...	...	...	...	...	...	...	...	...	...	...	...	310	344	154	170	978
1964...	...	...	...	...	...	...	...	...	...	...	...	...	266	282	183	287	1,018
1965...	...	...	...	...	...	...	...	...	...	...	...	...	176	616	403	910	1,801
1966...	219	159	196	339	400	743	20	156	296	256	382	545	1,482	692	931	3,505	
1967...	346	213	256	279	518	973	91	415	597	454	443	438	1,286	1,276	1,335	5,021	
1968...	225	416	582	423	421	877	90	559	619	1,280	569	415	1,023	1,731	1,277	2,164	
1969...	383	356	237	186	358	435	114	126	428	447	503	292	976	979	669	1,042	
1970...	286	198	255	204	514	33	96	169	316	207	274	739	927	298	797	2,761	
1971...	190	272	177	206	128	402	10	79	282	147	428	411	639	736	371	986	
1972...	257	250	225	235	225	448	61	82	186	292	269	236	732	908	289	797	
1973...	207	226	195	150	184	566	21	81	114	105	106	192	628	900	216	403	
1974...	135	244	142	170	123	554	37	72	111	122	114	165	521	847	220	401	
1975...	125	160	217	147	128	672	52	126	95	128	66	146	502	947	273	340	
1976...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	1,018	
630. DEFENSE DEPARTMENT MILITARY PRIME CONTRACT AWARDS, ELECTRONIC AND COMMUNICATIONS EQUIPMENT, NOT SEASONALLY ADJUSTED (MILLIONS OF DOLLARS)																	TOTAL FOR PERIOD
1957...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
1958...	...	...	...	...	...	...	...	...	...	...	...	...	537	1,014	372	520	...
1959...	...	...	...	...	...	...	...	...	...	...	...	...	417	1,165	473	631	2,686
1960...	...	...	...	...	...	...	...	...	...	...	...	...	709	1,215	530	546	2,998
1961...	...	...	...	...	...	...	...	...	...	...	...	...	848	1,250	351	908	3,335
1962...	...	...	...	...	...	...	...	...	...	...	...	...	84	1,236	596	688	3,312
1963...	...	...	...	...	...	...	...	...	...	...	...	...	753	1,046	519	523	2,841
1964...	...	...	...	...	...	...	...	...	...	...	...	...	707	1,169	487	536	2,899
1965...	272	287	302	357	296	890	149	187	269	304	318	285	592	1,163	533	701	
1966...	343	257	322	478	333	1,002	166	296	257	268	241	302	651	1,543	605	3,916	
1967...	308	259	240	328	407	722	204	318	303	259	290	349	807	1,457	825	3,987	
1968...	258	259	272	308	396	657	194	230	220	361	231	327	789	1,357	644	919	
1969...	267	266	247	283	263	523	320	223	192	402	163	286	778	1,069	735	3,433	
1970...	252	230	255	227	174	552	252	367	364	212	246	278	737	953	983	736	
1971...	307	326	347	248	272	731	234	215	298	302	401	228	978	1,251	747	931	
1972...	216	215	420	237	351	654	151	354	313	248	392	261	849	1,242	798	901	
1973...	311	415	206	405	270	732	321	402	352	598	349	254	932	1,405	1,075	1,201	
1974...	414	331	535	313	587	696	398	470	430	439	445	332	1,280	1,598	1,294	1,216	
1975...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	5,386	
1976...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
631. DEFENSE DEPARTMENT MILITARY PRIME CONTRACT AWARDS, COMBAT VEHICLES, NOT SEASONALLY ADJUSTED (MILLIONS OF DOLLARS)																	TOTAL FOR PERIOD
1957...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
1958...	...	...	...	...	...	...	...	...	...	...	...	...	49	208	18	3	278
1959...	...	...	...	...	...	...	...	...	...	...	...	...	5	104	13	16	138
1960...	...	...	...	...	...	...	...	...	...	...	...	...	38	176	7	33	254
1961...	...	...	...	...	...	...	...	...	...	...	...	...	176	63	33	171	441
1962...	...	...	...	...	...	...	...	...	...	...	...	...	157	192	65	188	582
1963...	...	...	...	...	...	...	...	...	...	...	...	...	205	136	8	129	478
1964...	...	...	...	...	...	...	...	...	...	...	...	...	93	80	32	63	278
1965...	36	42	45	45	133	39	22	78	57	74	64	114	22	211	139	195	
1966...	12	10	35	58	28	139	46	104	23	42	17	40	57	225	173	99	
1967...	26	79	30	62	35	109	15	15	64	36	15	47	135	206	90	529	
1968...	29	54	56	27	50	77	17	11	129	24	27	14	121	154	157	497	
1969...	38	28	28	21	21	54	8	31	86	56	35	53	98	36	134	458	
1970...	17	27	28	37	18	71	5	4	5	30	51	14	7	126	14	103	
1971...	13	7	13	37	17	72	6	18	140	15	40	33	33	33	16	84	
1972...	14	11	12	15	54	50	24	27	116	21	56	36	81	101	133	411	
1973...	102	5	40	129	98	404	58	104	151	25	22	81	147	631	314	128	
1974...	21	66	52	23	86	162	128	70	90	67	14	62	139	270	286	143	
1975...	...	...	...	...	...	...	...	...	...	...	...	...	387	577	318	358	1,638
1976...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
632. DEFENSE DEPARTMENT MILITARY PRIME CONTRACT AWARDS, OTHER HARD GOODS, NOT SEASONALLY ADJUSTED (MILLIONS OF DOLLARS)																	TOTAL FOR PERIOD
1957...	...	...	...	...	...	...	...	...	...	...	...	...	202	532	124	219	1,077
1958...	...	...	...	...	...	...	...	...	...	...	...	...	271	472	175	175	1,093
1959...	...	...	...	...	...	...	...	...	...	...	...	...	242	486	175	178	1,081
1960...	...	...	...	...	...	...	...	...	...	...	...	...	511	525	171	588	1,395
1961...	...	...	...	...	...	...	...	...	...	...	...	...	380	653	226	355	1,594
1962...	...	...	...	...	...	...	...	...	...	...	...	...	401	629	255	260	1,545
1963...	...	...	...	...	...	...	...	...	...	...	...	...	387	577	318	358	1,638
1964...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
1965...	224	300	395	397	823	132	181	207	250	258	286	721	1,615	520	831	3,687	
1966...	255	294	240	333	764	155	152	204	210	136	209	856	1,337	610	554	3,357	
1967...	216	269	276	252	245	604	86	147	295	200	157	211	759	1,158	528	568	2,993
1968...	161	143	183	163	171	341	125	115	164	430	116	101	497	659	406	647	2,207
1969...	114	95	104	122	113	341	56	89	100	185	93	203	313	576	245	481	1,615
1970...	93	169	135	132	169	398	62	106	111	107	111	115	362	700	279	333	1,674
1971...	92	135	135	132	169	398	62	106	111	107	111	115	362	700	279	333	1,674
1972...	128	111	179	294	139	352	163	158	129	108	127	135	418	785	450	370	2,023
1973...	140	141	130	145	128	393	65	117	106	133	142	108	411	666	288	383	1,748
1974...	126	111	179	294	139	352	163	158	129	108	127	135	418	785	450	370	2,023
1975...	154	143	152	147	165	399	104	115	150	201	156	179	449	711	369	538	2,065
1976...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...

NOTE: These series contain no revisions but are reprinted for the convenience of the user. Seasonally adjusted data for these series are shown on page 36.

(OCTOBER 1976)

Appendix C. HISTORICAL DATA—Continued

Year	Monthly												Quarterly				Annual
	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.	Oct.	Nov.	Dec.	I Q	II Q	III Q	IV Q	
633. DEFENSE DEPARTMENT MILITARY PRIME CONTRACT AWARDS, SOFT GOODS, NOT SEASONALLY ADJUSTED (MILLIONS OF DOLLARS)															TOTAL FOR PERIOD		
1957...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	529	376	...
1958...	...	...	...	...	...	...	...	...	...	...	...	...	325	341	704	393	1,763
1959...	...	...	...	...	...	...	...	...	...	...	...	...	288	265	628	355	1,536
1960...	...	...	...	...	...	...	...	...	...	...	...	...	292	230	618	359	1,499
1961...	...	...	...	...	...	...	...	...	...	...	...	...	322	251	699	392	1,664
1962...	...	...	...	...	...	...	...	...	...	...	...	...	471	303	524	571	1,669
1963...	...	...	...	...	...	...	...	...	...	...	...	...	381	245	657	358	1,661
1964...	...	...	...	...	...	...	...	...	...	...	...	...	455	333	707	406	1,501
1965...	170	213	326	241	299	381	653	253	211	258	231	520	709	921	1,077	2,296	
1966...	251	192	194	211	159	281	577	279	188	155	118	190	657	651	1,054	3,596	
1967...	337	139	202	218	211	212	598	159	225	228	166	455	778	642	982	2,353	
1968...	218	170	199	178	169	219	675	138	142	180	153	166	597	566	953	3,146	
1969...	295	102	154	124	102	166	488	113	123	103	117	365	551	592	724	2,615	
1970...	89	96	122	132	125	158	607	126	113	96	118	327	307	415	846	2,252	
1971...	115	121	125	120	155	141	545	179	127	111	85	358	361	416	851	2,282	
1972...	141	112	102	113	97	152	489	177	186	154	235	228	355	368	852	617	2,192
1973...	297	145	487	344	214	256	338	819	219	267	226	929	814	1,376	715	3,834	
1974...	217	704	191	164	121	213	811	307	256	175	214	244	1,112	498	1,374	631	3,615
1975...	1976...																
634. DEFENSE DEPARTMENT MILITARY PRIME CONTRACT AWARDS, CONSTRUCTION, NOT SEASONALLY ADJUSTED (MILLIONS OF DOLLARS)															TOTAL FOR PERIOD		
1957...	...	...	...	...	...	...	...	...	...	...	...	...	255	991	241	221	...
1958...	...	...	...	...	...	...	...	...	...	...	...	...	307	641	167	248	1,363
1959...	...	...	...	...	...	...	...	...	...	...	...	...	318	474	158	224	1,170
1960...	...	...	...	...	...	...	...	...	...	...	...	...	348	460	231	253	1,292
1961...	...	...	...	...	...	...	...	...	...	...	...	...	358	592	121	314	1,185
1962...	...	...	...	...	...	...	...	...	...	...	...	...	312	385	261	190	1,154
1963...	...	...	...	...	...	...	...	...	...	...	...	...	477	426	241	358	1,502
1964...	...	...	...	...	...	...	...	...	...	...	...	...
1965...	77	55	75	81	100	211	78	72	51	41	51	57	379	347	188	249	1,159
1966...	106	59	67	126	159	339	56	100	75	55	44	113	207	392	197	949	
1967...	61	53	67	39	195	406	51	78	151	80	89	63	181	640	280	1,333	
1968...	170	76	90	97	96	307	33	85	49	48	31	32	336	500	167	1,110	
1969...	42	55	202	73	71	310	58	65	83	75	67	105	299	454	182	1,182	
1970...	103	65	108	160	165	298	40	73	123	80	41	127	276	623	236	2,383	
1971...	74	177	144	147	174	470	138	103	64	77	88	69	395	791	305	1,725	
1972...	105	205	131	153	151	493	34	111	101	147	54	86	439	797	246	287	1,769
1973...	90	52	92	248	58	604	131	148	112	138	126	104	254	910	391	368	1,303
1974...	168	154	127	156	291	1,073	82	61	178	149	56	176	429	1,520	321	381	2,651
1975...	1976...																
635. DEFENSE DEPARTMENT MILITARY PRIME CONTRACT AWARDS, SERVICES, NOT SEASONALLY ADJUSTED (MILLIONS OF DOLLARS)															TOTAL FOR PERIOD		
1957...	...	...	...	...	...	...	...	...	...	...	...	...	471	797	743	665	...
1958...	...	...	...	...	...	...	...	...	...	...	...	...	205	331	616	278	2,607
1959...	...	...	...	...	...	...	...	...	...	...	...	...	202	225	402	166	995
1960...	...	...	...	...	...	...	...	...	...	...	...	...	151	371	313	261	1,096
1961...	...	...	...	...	...	...	...	...	...	...	...	...	198	318	450	322	1,288
1962...	...	...	...	...	...	...	...	...	...	...	...	...	302	430	577	391	1,700
1963...	...	...	...	...	...	...	...	...	...	...	...	...	353	479	472	254	1,558
1964...	...	...	...	...	...	...	...	...	...	...	...	...
1965...	164	123	105	88	99	397	871	198	380	234	119	153	348	666	802	526	2,342
1966...	151	245	85	138	183	274	995	269	219	216	175	343	392	584	1,449	506	2,931
1967...	165	141	184	162	116	433	910	254	234	188	105	219	488	711	1,398	512	3,255
1968...	133	436	148	158	111	375	730	550	185	116	117	130	717	642	1,465	365	3,185
1969...	94	501	153	142	125	399	438	542	305	317	322	165	748	664	1,085	802	3,297
1970...	135	248	143	118	165	440	347	525	167	571	132	155	377	688	1,050	769	2,884
1971...	154	140	152	195	157	446	341	265	252	388	161	178	446	778	858	858	2,446
1972...	204	181	181	166	168	524	451	505	235	446	185	181	523	858	987	812	3,880
1973...	307	361	201	190	211	574	634	570	204	216	210	121	849	975	1,408	547	3,779
1974...	1975...																
636. DEFENSE DEPARTMENT MILITARY PRIME CONTRACT AWARDS, CONTRACTS UNDER \$10,000, NOT SEASONALLY ADJUSTED (MILLIONS OF DOLLARS)															TOTAL FOR PERIOD		
1957...	...	...	...	...	...	...	...	...	...	...	...	...	318	456	320	370	1,464
1958...	...	...	...	...	...	...	...	...	...	...	...	...	366	446	346	370	1,528
1959...	...	...	...	...	...	...	...	...	...	...	...	...	371	458	356	373	1,558
1960...	...	...	...	...	...	...	...	...	...	...	...	...	409	526	394	442	1,771
1961...	...	...	...	...	...	...	...	...	...	...	...	...	592	689	502	602	2,385
1962...	...	...	...	...	...	...	...	...	...	...	...	...	656	850	562	608	2,676
1963...	...	...	...	...	...	...	...	...	...	...	...	...	761	780	617	677	2,835
1964...	...	...	...	...	...	...	...	...	...	...	...	...
1965...	317	276	345	534	339	568	193	294	362	379	326	349	936	1,241	849	1,054	3,045
1966...	331	513	369	358	328	611	184	271	324	261	280	280	1,013	1,295	779	821	3,908
1967...	261	505	525	324	346	519	166	259	282	329	265	275	891	1,189	707	869	3,656
1968...	347	238	523	318	337	530	170	249	290	255	288	281	906	1,185	709	822	3,620
1969...	201	261	253	276	510	568	127	209	276	298	251	281	715	1,184	612	828	3,537
1970...	293	237	303	327	299	516	149	287	305	297	269	275	833	1,182	751	841	3,587
1971...	327	289	317	300	318	516	159	279	348	277	315	255	933	1,134	786	845	3,498
1972...	341	320	334	356	319	551	225	310	390	319	355	326	995	1,226	825	906	4,028
1973...	327	333	329	384	362	570	225	321	380	398	376	343	989	1,246	826	1,116	4,057
1974...	372	345	419	418	367	635	263	345	409	374	412	408	1,136	1,426	1,017	1,194	4,767
1975...	1976...																

NOTE: These series contain no revisions but are reprinted for the convenience of the user. Seasonally adjusted data for these series are shown on pages 36 and 37.

(OCTOBER 1976)

Appendix C. HISTORICAL DATA—Continued

Year	Monthly												Quarterly				Annual	
	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.	Oct.	Nov.	Dec.	I Q	II Q	III Q	IV Q		
637. DEFENSE DEPARTMENT MILITARY PRIME CONTRACT AWARDS, EDUCATIONAL AND NONPROFIT INSTITUTIONS, NOT SEASONALLY ADJUSTED^a (MILLIONS OF DOLLARS)																		
1957...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
1958...	...	...	...	...	...	...	...	...	...	...	...	...	103	148	83	96	428
1959...	...	...	...	...	...	...	...	...	...	...	...	...	126	96	90	87	389
1960...	...	...	...	...	...	...	...	...	...	...	...	...	80	122	95	98	395
1961...	...	...	...	...	...	...	...	...	...	...	...	...	122	117	82	125	444
1962...	...	...	...	...	...	...	...	...	...	...	...	...	151	161	96	185	571
1963...	...	...	...	...	...	...	...	...	...	...	...	...	166	175	174	193	708
1964...	...	...	...	...	...	...	...	...	...	...	...	...	136	185	159	210	670
1965...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
1966...	75	49	76	57	42	115	68	66	65	45	39	35	171	218	116	146	669	
1967...	105	38	92	28	49	128	61	103	69	51	63	35	198	214	197	119	728	
1968...	95	84	40	52	30	87	62	45	82	68	75	53	235	205	233	149	822	
1969...	56	76	34	66	58	104	69	70	76	75	68	33	166	208	215	176	765	
1970...	48	61	59	43	44	94	43	58	49	59	79	87	168	181	150	225	724	
1971...	61	53	54	28	53	98	64	61	31	89	88	96	168	159	156	269	752	
1972...	46	37	58	43	46	96	87	61	79	69	114	43	141	185	227	226	779	
1973...	41	45	43	46	35	76	61	123	76	86	85	87	29	129	157	270	201	757
1974...	76	55	58	37	38	70	162	118	51	46	59	92	189	145	331	197	862	
1975...	51	61	53	42	35	76	164	92	80	67	50	82	165	153	356	199	875	
1976...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
638. DEFENSE DEPARTMENT MILITARY PRIME CONTRACT AWARDS, CIVILIAN HEALTH AND MEDICAL PROGRAM OF THE UNIFORMED SERVICES (CHAMPUS), NOT SEASONALLY ADJUSTED (MILLIONS OF DOLLARS)																		
1972...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
1973...	34	0	13	10	-1	0	0	10	229	35	0	13	47	9	239	48	345	
1974...	63	0	13	0	0	20	100	0	0	240	7	0	76	20	100	247	485	
1975...	5	0	2	0	0	0	5	1	0	0	0	0	7	0	6	0	15	
1976...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
640. DEFENSE DEPARTMENT MILITARY PRIME CONTRACT AWARDS FOR WORK OUTSIDE THE UNITED STATES, NOT SEASONALLY ADJUSTED^a (MILLIONS OF DOLLARS)																		
1957...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
1958...	...	...	...	...	...	...	...	...	...	...	...	...	757	601	395	312	2,065
1959...	...	...	...	...	...	...	...	...	...	...	...	...	261	442	383	253	1,339
1960...	...	...	...	...	...	...	...	...	...	...	...	...	208	382	342	266	1,198
1961...	...	...	...	...	...	...	...	...	...	...	...	...	260	413	371	275	1,319
1962...	...	...	...	...	...	...	...	...	...	...	...	...	280	528	392	287	1,487
1963...	...	...	...	...	...	...	...	...	...	...	...	...	220	376	449	322	1,367
1964...	...	...	...	...	...	...	...	...	...	...	...	...	276	276	446	271	1,289
1965...	180	177	154	117	655	423	370	196	285	259	185	250	226	423	531	264	1,466	
1966...	184	112	157	227	227	380	314	382	195	193	117	145	453	1,195	856	672	3,246	
1967...	288	139	134	157	135	315	560	199	202	169	181	201	561	607	934	891	455	
1968...	254	257	97	119	139	298	512	178	152	144	59	361	608	556	842	564	2,670	
1969...	246	137	103	95	152	268	534	181	111	125	106	188	476	515	826	419	2,296	
1970...	123	93	188	98	64	262	509	197	96	123	107	105	404	424	802	335	1,965	
1971...	169	150	106	82	95	290	368	278	195	142	106	99	405	667	841	345	2,058	
1972...	156	151	125	213	83	264	368	244	159	194	240	186	432	560	771	620	2,383	
1973...	160	114	198	80	94	333	421	448	120	190	93	111	472	507	989	394	2,362	
1974...	114	93	96	73	86	558	244	149	124	252	164	255	303	717	517	671	2,208	
1975...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
1976...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...

NOTE: These series contain no revisions but are reprinted for the convenience of the user.

^aSeasonally adjusted data for this series are shown on page 37.

(OCTOBER 1976)

Appendix C. HISTORICAL DATA—Continued

Year	Quarterly				Annual	Year	Quarterly				Annual
	I Q	II Q	III Q	IV Q			I Q	II Q	III Q	IV Q	
626. DEFENSE DEPARTMENT MILITARY PRIME CONTRACT AWARDS, AIRCRAFT, SEASONALLY ADJUSTED (MILLIONS OF DOLLARS)										627. DEFENSE DEPARTMENT MILITARY PRIME CONTRACT AWARDS, MISSILE AND SPACE SYSTEMS, SEAS. ADJ. (MILLION DOLLARS)	
1957.....	...	...	1,245	2,195		1957.....	...	...	217	593	
1958.....	1,978	1,847	1,465	1,768		1958.....	851	1,008	853	1,154	
1959.....	1,741	1,532	1,481	1,007		1959.....	1,112	1,289	883	1,410	
1960.....	1,177	1,222	1,496	1,086		1960.....	1,251	1,368	1,655	1,301	
1961.....	932	1,469	903	1,993		1961.....	1,474	1,528	1,549	1,627	
1962.....	1,695	1,051	1,061	1,757		1962.....	1,887	1,661	1,516	1,588	
1963.....	1,222	1,439	1,879	1,200		1963.....	2,182	1,747	1,441	1,525	
1964.....	1,835	1,255	1,266	1,186		1964.....	1,201	1,410	1,185	759	
1965.....	1,196	2,017	1,421	1,669		1965.....	1,338	982	970	1,160	
1966.....	2,108	2,515	2,715	2,571		1966.....	1,071	1,018	1,016	916	
1967.....	2,334	2,520	2,582	2,839		1967.....	1,276	1,250	1,224	1,121	
1968.....	1,728	2,476	2,214	2,160		1968.....	1,293	1,148	1,687	1,304	
1969.....	2,435	1,688	1,713	1,698		1969.....	1,000	1,205	1,070	1,360	
1970.....	1,821	1,764	1,947	2,017		1970.....	1,177	1,278	1,240	1,294	
1971.....	1,808	1,941	2,509	1,965		1971.....	1,040	993	1,252	1,207	
1972.....	1,981	2,129	1,940	1,588		1972.....	1,395	1,255	1,154	1,283	
1973.....	1,942	1,948	1,804	2,150		1973.....	1,306	967	1,200	1,158	
1974.....	2,424	1,104	2,446	2,900		1974.....	844	1,271	1,448	1,107	
1975.....	2,147	1,240	2,471	1,807		1975.....	980	1,654	1,586	1,327	
1976.....						1976.....					
629. DEFENSE DEPARTMENT MILITARY PRIME CONTRACT AWARDS, WEAPONS AND AMMUNITION, SEAS. ADJ. (MILLION DOLLARS)										630. DEFENSE DEPARTMENT MILITARY PRIME CONTRACT AWARDS, ELECTRONIC AND COMMUNICATIONS EQUIP., SEAS. ADJ. (MIL.DOL.)	
1957.....	...	...	173	68		1957.....	...	...	276	535	
1958.....	106	141	102	115		1958.....	565	621	580	671	
1959.....	106	198	107	115		1959.....	435	721	628	608	
1960.....	141	195	221	136		1960.....	735	762	798	696	
1961.....	172	186	298	379		1961.....	871	787	515	1,153	
1962.....	278	227	219	282		1962.....	832	799	858	851	
1963.....	328	269	224	152		1963.....	774	676	749	681	
1964.....	296	220	256	254		1964.....	741	746	708	674	
1965.....	206	317	544	813		1965.....	635	730	784	880	
1966.....	674	1,116	909	842		1966.....	940	955	900	1,076	
1967.....	1,036	1,410	1,384	1,120		1967.....	1,049	1,139	1,060	940	
1968.....	1,261	1,402	1,728	1,873		1968.....	932	973	1,113	982	
1969.....	1,152	808	961	838		1969.....	911	938	837	984	
1970.....	842	777	454	629		1970.....	904	755	954	900	
1971.....	709	619	674	761		1971.....	856	683	1,236	744	
1972.....	779	754	562	614		1972.....	1,083	959	931	957	
1973.....	658	725	456	510		1973.....	939	959	990	900	
1974.....	541	680	453	534		1974.....	1,013	1,110	1,316	1,239	
1975.....	515	683	630	303		1975.....	1,379	1,255	1,559	1,277	
1976.....						1976.....					
631. DEFENSE DEPARTMENT MILITARY PRIME CONTRACT AWARDS, COMBAT VEHICLES, SEASONALLY ADJUSTED (MILLION DOLLARS)										632. DEFENSE DEPARTMENT MILITARY PRIME CONTRACT AWARDS, OTHER HARD GOODS, SEASONALLY ADJUSTED (MILLION DOLLARS)	
1957.....	...	...	65	31		1957.....	...	...	193	233	
1958.....	71	79	64	7		1958.....	220	297	218	303	
1959.....	7	42	47	29		1959.....	293	267	302	241	
1960.....	43	79	25	46		1960.....	256	282	291	242	
1961.....	177	33	108	186		1961.....	324	314	271	515	
1962.....	149	121	168	156		1962.....	393	407	336	428	
1963.....	198	99	16	109		1963.....	424	402	362	318	
1964.....	100	70	48	55		1964.....	423	379	425	425	
1965.....	28	110	183	84		1965.....	353	502	746	787	
1966.....	157	180	155	197		1966.....	832	1,092	644	971	
1967.....	83	158	182	215		1967.....	942	897	823	645	
1968.....	169	149	90	125		1968.....	827	767	720	565	
1969.....	146	111	156	85		1969.....	535	491	548	611	
1970.....	111	69	124	190		1970.....	335	433	516	539	
1971.....	99	103	12	116		1971.....	402	353	401	412	
1972.....	51	103	131	98		1972.....	601	506	418	318	
1973.....	60	85	80	214		1973.....	458	480	452	365	
1974.....	253	502	249	126		1974.....	467	564	677	391	
1975.....	288	191	259	172		1975.....	497	487	532	631	
1976.....						1976.....					
633. DEFENSE DEPARTMENT MILITARY PRIME CONTRACT AWARDS, SOFT GOODS, SEASONALLY ADJUSTED (MILLION DOLLARS)										634. DEFENSE DEPARTMENT MILITARY PRIME CONTRACT AWARDS, CONSTRUCTION, SEASONALLY ADJUSTED (MILLION DOLLARS)	
1957.....	...	...	335	394		1957.....	...	...	317	161	
1958.....	420	503	441	415		1958.....	270	541	444	522	
1959.....	367	396	392	381		1959.....	317	360	306	346	
1960.....	362	351	384	305		1960.....	314	283	269	295	
1961.....	384	591	454	438		1961.....	327	296	382	314	
1962.....	545	474	328	642		1962.....	306	274	186	374	
1963.....	474	375	419	398		1963.....	283	281	579	227	
1964.....	525	485	458	448		1964.....	450	310	331	423	
1965.....	429	686	578	768		1965.....	375	244	287	502	
1966.....	856	1,230	716	1,074		1966.....	230	251	257	1,933	
1967.....	780	772	780	495		1967.....	279	377	301	266	
1968.....	963	744	722	823		1968.....	227	375	364	525	
1969.....	752	650	720	507		1969.....	432	289	216	170	
1970.....	717	499	499	580		1970.....	363	254	281	399	
1971.....	409	536	577	529		1971.....	320	342	347	388	
1972.....	516	551	557	539		1972.....	434	440	465	368	
1973.....	519	488	553	600		1973.....	684	642	377	450	
1974.....	1,374	1,081	890	692		1974.....	258	504	601	577	
1975.....	1,489	658	937	687		1975.....	681	838	486	605	
1976.....						1976.....					

NOTE: These series contain no revisions but are reprinted for the convenience of the user. Unadjusted data for these series are shown on pages 32-34.

(OCTOBER 1976)

Appendix C. HISTORICAL DATA—Continued

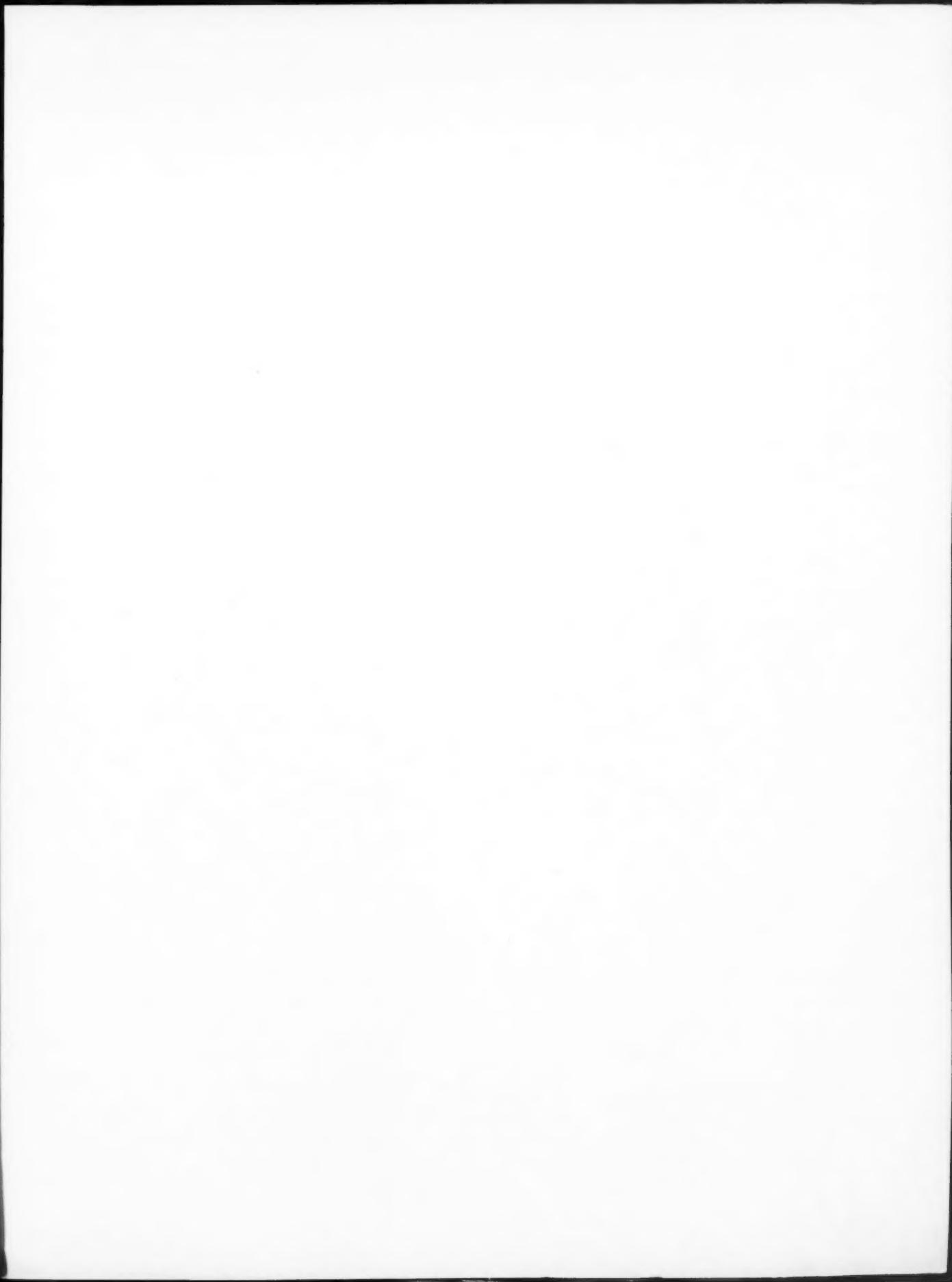
Year	Quarterly				Annual	Year	Quarterly				Annual
	I Q	II Q	III Q	IV Q			I Q	II Q	III Q	IV Q	
635. DEFENSE DEPARTMENT MILITARY PRIME CONTRACT AWARDS, SERVICES, SEASONALLY ADJUSTED (MILLION DOLLARS)										636. DEFENSE DEPARTMENT MILITARY PRIME CONTRACT AWARDS, CONTRACTS UNDER \$10,000, SEAS. ADJ. (MILLION DOLLARS)	
1957.....	757	769	506	734		1957.....	...	308	287		
1958.....	345	316	421	316		1958.....	308	378	361	346	
1959.....	351	212	277	194		1959.....	375	370	393	396	
1960.....	235	347	216	316		1960.....	377	379	408	400	
1961.....	294	291	323	393		1961.....	412	456	457	474	
1962.....	431	391	419	479		1962.....	592	570	586	647	
1963.....	495	442	339	314		1963.....	654	701	661	647	
1964.....						1964.....	763	641	729	716	
1965.....	485	637	552	668		1965.....	712	711	791	846	
1966.....	550	620	910	635		1966.....	953	1,016	1,002	1,107	
1967.....	721	618	892	934		1967.....	1,034	1,061	920	860	
1968.....	744	820	821	657		1968.....	910	975	835	909	
1969.....	1,045	755	914	414		1969.....	929	933	873	869	
1970.....	1,108	751	719	844		1970.....	730	916	768	888	
1971.....	572	749	740	758		1971.....	846	918	919	904	
1972.....	697	737	622	799		1972.....	942	901	954	911	
1973.....	755	776	653	665		1973.....	1,005	977	997	1,059	
1974.....	900	846	762	742		1974.....	996	1,066	1,116	1,204	
1975.....	1,396	925	1,136	525		1975.....	1,144	1,141	1,218	1,273	
1976.....						1976.....					
637. DEFENSE DEPARTMENT MILITARY PRIME CONTRACT AWARDS, EDUCATIONAL AND NONPROFIT INST., SEAS. ADJ.¹ (MIL. DOL.)										640. DEFENSE DEPARTMENT MILITARY PRIME CONTRACT AWARDS FOR WORK OUTSIDE THE U.S., SEASONALLY ADJUSTED (MIL. DOL.)	
1957.....	...	123	75	90		1957.....	...	261	384		
1958.....	99	80	100	101		1958.....	947	447	190	369	
1959.....	121	109	91	99		1959.....	330	331	368	300	
1960.....	77	105	115	99		1960.....	268	291	316	316	
1961.....	119	102	100	120		1961.....	341	323	327	328	
1962.....	131	141	117	173		1962.....	375	426	327	349	
1963.....	170	153	212	182		1963.....	299	308	362	399	
1964.....	139	163	163	205		1964.....	383	227	348	347	
1965.....	174	195	128	149		1965.....	319	346	407	376	
1966.....	188	197	212	152		1966.....	749	966	645	916	
1967.....	214	192	244	173		1967.....	577	722	681	608	
1968.....	194	163	185	200		1968.....	695	538	754	729	
1969.....	163	211	217	188		1969.....	745	554	615	708	
1970.....	174	156	154	153		1970.....	574	571	568	542	
1971.....	181	161	166	234		1971.....	488	484	525	437	
1972.....	155	187	220	192		1972.....	492	536	545	455	
1973.....	156	191	210	186		1973.....	527	645	697	833	
1974.....	233	186	243	187		1974.....	594	559	632	559	
1975.....	205	201	253	192		1975.....	388	813	317	941	
1976.....						1976.....					

NOTE: Unless otherwise noted, these series contain no revisions but are reprinted for the convenience of the user. Unadjusted data for these series are shown on pages 34 and 35.

¹This series contains revisions beginning with 1973.

(OCTOBER 1976)





ASSISTANT PUBLIC PRINTER
 (SUPERINTENDENT OF DOCUMENTS)
 U.S. Government Printing Office
 Washington, D.C. 20402
 OFFICIAL BUSINESS
 FIRST CLASS MAIL

POSTAGE AND FEES PAID
 U.S. DEPARTMENT OF COMMERCE
 COM-209



ALPHABETICAL INDEX—SERIES FINDING GUIDE
DEIN XEROX300XBISSUE012R
XEROX UNIV MICROFILMS
SERIALS DEPT
300 N ZEEB RD
ANN ARBOR MI 48106

Accession rate, defense
 Aerospace industries
 Manufacturers'
 Manufacturers'
 Manufacturers' unfilled orders from U.S. Government

Balance of payments (defense related)
 Cash receipts associated with military sales contracts
 Direct defense expenditures
 Transfers under military agency sales contracts
 Budget outlays for national defense function

Cash receipts associated with military sales contracts
 Civilian personnel, Defense Department
 Compensation
 Payrolls, aggregate weekly, defense products
 industries
 Personnel compensation, Defense Department
 Contract awards, military prime
 Aircraft
 Civilian Health and Medical Program
 Combat vehicles
 Construction
 Contracts under \$10,000
 Educational and nonprofit institutions
 Electronic and communications equipment
 Missile and space systems
 Other hard goods
 Services
 Ships
 Soft goods
 Total
 Weapons and ammunition
 Work outside the United States

Defense and space equipment, output
 Defense Department
 Gross obligations incurred—See Obligations incurred.
 Gross unpaid obligations outstanding—See
 Obligations outstanding.
 Military prime contract awards—See Contract awards.
 Net outlays—See Outlays.
 Personal compensation
 Personnel—See Civilian personnel and Military
 personnel.
 Progress payments outstanding

Direct defense expenditures

Employment
 Accession rate, defense products industries
 Employment, production workers, defense products
 industries
 Employment, total, defense products industries
 Hours, defense products industries
 Layoff rate, defense products industries
 Overtime hours, defense products industries
 Personnel—See Civilian personnel and Military
 personnel.
 Expenditures—See Outlays.

Federal purchases of goods and services for national
 defense
 Gross national product
 Federal purchases of goods and services for national
 defense
 Gross national product
 National defense purchases as percent of GNP
 Gross obligations incurred—See Obligations incurred.
 Gross unpaid obligations outstanding—See Obligations
 outstanding.

ALPHABETICAL INDEX—SERIES FINDING GUIDE

Ref. Series title (see below)	Series title	Series number	Current issue (page numbers)		Historical data (issue date)	Series descriptions (issue date)
			Charts	Tables		
4/73	Hours, defense products industries	673	10	23	7/76	4/73
	Inventories, manufacturers'					
	Defense products	659	9	22	8/75	2/73
	Defense products industries	658	9	...	1/72	2/73
	Ratio to shipments, defense products	693	12	26	8/75	2/73
	Ratio to shipments, defense products industries	692	12	...	11/72	2/73
	Layoff rate, defense products industries	655	8	21	6/76	4/73
	Military personnel, Defense Department	677	10	24	9/76	8/68
	Military prime contract awards—See Contract awards					
	Net outlays, Defense Department—See Outlays					
	New orders, manufacturers'					
	Defense products	648	7	20	8/75	2/73
	Defense products industries	647	7	...	11/72	2/73
	From Government, aerospace industries	650	8	20	5/75	2/73
	Obligations incurred, gross					
	Defense Department, operations	619	...	15	6/76	8/68
	Defense Department, procurement	621	6	15	6/76	8/68
	Defense Department, total	617	6	15	6/76	8/68
	Outside Government for national defense	623	6	16	6/76	10/73
	Obligations outstanding, gross unpaid					
	Defense Department, operations	644	...	20	6/76	8/68
	Defense Department, procurement	645	...	20	6/76	8/68
	Operations, Defense Department	643	7	20	6/76	8/68
	Net outlays	681				
	Obligations incurred	619				
	Unpaid obligations outstanding	644				
	Outlays—See New orders and Unfilled orders					
	Budget outlays for national defense function	683	11	25	7/76	10/73
	Defense Department, operations	681	...	24	7/76	8/68
	Defense Department, procurement	682	11	25	7/76	8/68
	Defense Department, total	680	11	24	7/76	8/68
	Output of defense and space equipment	657	9	22	8/75	10/73
	Overtime hours, defense products industries	653	8	21	6/76	4/73
	Payrolls, aggregate weekly, defense products industries	675				
	Personnel compensation, Defense Department	685				
	Personnel—See Civilian personnel and Military personnel					
	Procurement, Defense Department					
	Net outlays	682				
	Obligations incurred	621				
	Unpaid obligations outstanding	645				
	Progress payments outstanding, Defense Department	666				
	Purchases of goods and services for national defense	264				
	See Gross national product					
	Shipments, manufacturers'					
	Defense products	688	12	26	8/75	2/73
	Defense products industries	687	12	...	11/72	2/73
	Ratio, inventories to shipments, defense products	693				
	Ratio, inventories to shipments, defense products industries	692				
	Ratio, unfilled orders to shipments, defense products industries	691				
	Ratio, unfilled orders to shipments, defense products industries	690				
	To Government, aerospace industries	689	12	26	5/75	2/73
	See Inventories					
	See Unfilled orders					
	Transfers under military agency sales contracts	546				
	Unfilled orders, manufacturers'					
	Defense products	661	9	22	8/75	2/73
	Defense products industries	660	9	...	7/71	2/73
	From Government, aerospace industries	664	9	22	5/75	2/73
	Ratio to shipments, defense products	691	12	26	8/75	2/73
	Ratio to shipments, defense products industries	690	12	...	11/72	2/73
	Unpaid obligations outstanding—See Obligations outstanding					



